2023版

ROHM SEMICONDUCTOR

罗姆集团综合产品目录

ROHM GROUP

LAPIS TECHNOLOGY

Kionix®

ROHM Co.,Ltd.

关于罗姆的功能安全品牌 ComfySIL™

详情请浏览官网

ROHM为了使进行功能安全设计的客户能够Comfy(舒适)地使用支持SIL(Safety Integrity Level: 安全完整性等级)的产品，同时，还希望其产品为构建安全、安心和舒适的社会做出贡献。基于以上想法，ROHM推出了ComfySIL™品牌。
ComfySIL™适用于遵循ComfySIL™理念的功能安全产品，不仅适用于汽车领域也适用于工业设备领域。

功能安全类别和可提供的文档

ROHM拥有以下三种功能安全产品。
(目前仅支持汽车领域)

- **FS process compliant(FSp)**
  表示相应LSI是按照符合ISO 26262标准中ASIL等级规定的流程开发的。
- **FS mechanism implemented(FSm)**
  表示相应LSI搭载了ASIL等级要求的安全机制。
- **FS supportive(FSs)**
  表示这是面向车载领域开发的LSI，支持与功能安全性相关的安全性分析。

可提供的资料列表

	FS process compliant (FSp)	FS mechanism implemented (FSm)	FS supportive (FSs)
支持IATF16949流程	✓	✓	✓
支持ISO 26262流程	✓	—	—
FMEA	✓	✓	✓
FIT	✓	✓	✓
FMEDA	✓	✓	✓ *
Safety manual	✓	✓	—

*FS supportive的FMEDA中不包括对硬件架构指标等的分析。

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

目录的阅读方法

■关于 “ComfySIL™” 适用机型

本产品目录中刊载了 “ComfySIL™” 适用机型。
ComfySIL™适用机型在项目中设有 “ComfySIL™” 栏。
栏中以FSp、FSm、FSs字母缩写标示。

FSp: FS process compliant
FSm: FS mechanism implemented
FSs: FS supportive

- ■ 正文中 New 表示新产品。
- ■ 正文中的 Nano 表示采用了罗姆先进电源技术的产品。
- ■ 正文中的 MUS-IC 表示罗姆高端音频IC专用的产品“MUS-IC系列”。
- ■ 正文中☆表示开发中的产品。
- ■ 按颜色分类
  - 罗姆产品 …… 用色带表示
  - LAPIS Technology产品…… 用色带表示正文中用 “LAPIS Technology产品” 表示
  - Kionix产品 …… 用色带表示正文中用 “Kionix产品” 表示

详情请浏览官网

“Nano系列”是采用了罗姆充分节能和小型化的先进电源技术的产品。

超高速脉冲控制技术	Nano Pulse Control™
超低消耗电流技术	Nano Energy™
超稳定控制技术	Nano Cap™

◎Nano Energy™、Nano Pulse Control™和Nano Cap™是ROHM Co.,Ltd.的商标或者注册商标。

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融合了罗姆的模拟“电路设计技术”、“布局技术”、“工艺技术”开发而成的“EMARMOUR™系列”产品，通过了4项国际噪声评估测试，实现了极具优势的抗噪性能。

◎EMARMOUR™是ROHM Co.,Ltd.的商标或注册商标。

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SPI BUS EEPROM P.10
Microwire BUS EEPROM (3-Wire) P.10
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Plug & Play用EEPROM P.11

车载用EEPROM

I²C BUS EEPROM (2-Wire) P.11
Microwire BUS EEPROM (3-Wire) P.11
SPI BUS EEPROM P.12

串行EEPROM

通用EEPROM

I²C BUS EEPROM (2-Wire) BR24Gxxx-3系列(SCL频率=400kHz)

Part No.	Package and Suffix							Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Hz)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	SSOP-B8	TSSOP-B8	MSOP8	TSSOP-B8J	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G01	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	1K	128×8	1.6 to 5.5	2	2	5	400k	−40 to +85	10^6	40
BR24G02	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	2K	256×8	1.6 to 5.5	2	2	5	400k			
BR24G04	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	4K	512×8	1.6 to 5.5	2	2	5	400k			
BR24G08	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	8K	1K×8	1.6 to 5.5	2	2	5	400k			
BR24G16	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	16K	2K×8	1.6 to 5.5	2	2	5	400k			
BR24G32	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	32K	4K×8	1.6 to 5.5	2	2	5	400k			
BR24G64	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	64K	8K×8	1.6 to 5.5	2	2	5	400k			
BR24G128	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	128K	16K×8	1.6 to 5.5	2.5	2	5	400k			
BR24G256	F-3	FJ-3	FV-3	FVT-3	–	–	–	256K	32K×8	1.6 to 5.5	2.5	2	5	400k			

I²C BUS EEPROM (2-Wire) BR24Gxxx-3A系列(SCL频率=1MHz)

Part No.	Package and Suffix							Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Hz)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	SSOP-B8	TSSOP-B8	MSOP8	TSSOP-B8J	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G01	F-3A	FJ-3A	–	FVT-3A	FVM-3A	–	NUX-3A	1K	128×8	1.7 to 5.5	2	2	5	1M	−40 to +85	10^6	40
BR24G02	F-3A	FJ-3A	–	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	2K	256×8	1.7 to 5.5	2	2	5	1M			
BR24G04	F-3A	FJ-3A	–	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	4K	512×8	1.7 to 5.5	2	2	5	1M			
BR24G08	F-3A	FJ-3A	–	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	8K	1K×8	1.7 to 5.5	2	2	5	1M			
BR24G16	F-3A	FJ-3A	–	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	16K	2K×8	1.7 to 5.5	2	2	5	1M			
BR24G512	F-3A	FJ-3A	–	FVT-3A	–	–	–	512K	64K×8	1.7 to 5.5	4.5	3	5	1M			

I²C BUS EEPROM (2-Wire) BR24Gxxx-5系列(SCL频率＝1MHz、改写次数400万次)

Part No.	Package and Suffix							Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Hz)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	SSOP-B8	TSSOP-B8	MSOP8	TSSOP-B8J	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G32	F-5	FJ-5	–	FVT-5	FVM-5	–	NUX-5	32K	4K×8	1.6 to 5.5	2	2.5	5	1M	−40 to +85	4×10^6	200
BR24G64	F-5	FJ-5	–	FVT-5	FVM-5	–	NUX-5	64K	8K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G128	F-5	FJ-5	–	FVT-5	FVM-5	–	NUX-5	128K	16K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G256	F-5	FJ-5	–	FVT-5	FVM-5	–	NUX-5	256K	32K×8	1.6 to 5.5	2	2.5	5	1M			

I²C BUS EEPROM (2-Wire) BR24Gxxx-5A系列(SCL频率＝1MHz、改写次数400万次)

Part No.	Package and Suffix							Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Hz)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	SSOP-B8	TSSOP-B8	MSOP8	TSSOP-B8J	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G512	F-5A	FJ-5A	–	FVT-5A	FVM-5A	–	–	512K	64K×8	1.6 to 5.5	3	5	3.5	1M	−40 to +85	4×10^6	200
BR24G1M	F-5A	FJ-5A	–	FVT-5A	–	–	–	1M	128K×8	1.7 to 5.5	3	5	3.5	1M			

通用EEPROM

SPI BUS EEPROM BR25Gxxx-3系列

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
BR25G320	F-3	FJ-3	FVT-3	FVM-3	NUX-3	32K	4K×8	1.6 to 5.5	8	2	5	−40 to +85	10^6	100
BR25G640	F-3	FJ-3	FVT-3	FVM-3	NUX-3	64K	8K×8	1.6 to 5.5	8	2	5			
BR25G128	F-3	FJ-3	FVT-3	FVM-3	NUX-3	128K	16K×8	1.6 to 5.5	8	2	5			
BR25G256	F-3	FJ-3	FVT-3	—	—	256K	32K×8	1.6 to 5.5	8	2	5			
BR25G512	F-3	FJ-3	FVT-3	—	—	512K	64K×8	1.8 to 5.5	4	1	5			
BR25G1M	F-3	FJ-3	—	—	—	1M	128K×8	1.8 to 5.5	4	1	5			

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B系列

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
BR93G46	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2	1K	64×16 (128×8)	1.7 to 5.5	3	2	5	−40 to +85	10^6	40
BR93G56	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	2K	128×16 (256×8)	1.7 to 5.5	3	2	5			
BR93G66	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	4K	256×16 (512×8)	1.7 to 5.5	3	2	5			
BR93G76	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2	FVT-3*1/ FVT-3A*2	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	8K	512×16 (1K×8)	1.7 to 5.5	3	2	5			
BR93G86	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	16K	1K×16 (2K×8)	1.7 to 5.5	3	2	5			

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B系列: *1 向ORG PIN输入后，在硬件上可选择16bit或8bit的数据格式 *2 1PIN为CS PIN *3 3PIN为CS PIN

Microwire BUS Pin Assignment



可选择位形式 (8bit or 16bit)

BR93LxxRxx-W系列兼容

旋转引脚

WL-CSP EEPROM

Part No.	I/F	Density (bit)	Package					Pull-up Resister	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Data Retention (years)
			Package Name	Size (mm)	Thickness (mm) (Max)	Ball Pitch (mm)	RESIN COATING				Operating (mA)	Standby (μA)			
BU9833GUL-W	I²C	2K	VCSP50L1	x: 1.27 y: 1.50	0.55	0.5	✓	—	256×8	1.7 to 5.5	2	2	5	−40 to +85	40
BU9847GUL-W		4K	VCSP50L1	x: 1.95 y: 1.06	0.55	0.5	✓	—	512×8	1.7 to 5.5	2	2	5	−40 to +85	40
BU9889GUL-W		8K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	—	1K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCB008GWZ-3		8K	UCSP30L1	x: 0.94 y: 0.94	0.33	0.4	—	—	1K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCB016GWL-3U		16K	UCSP50L1	x: 1.10 y: 1.15	0.55	0.4	✓	—	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCD016GWZ-3		16K	UCSP35L1	x: 1.30 y: 0.77	0.40	0.4	✓	—	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCG016GWZ-3		16K	UCSP30L1A	x: 0.82 y: 0.82	0.33	0.4	✓	—	2K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCF016GWZ-3		16K	UCSP30L1	x: 0.86 y: 0.84	0.35	0.4	—	—	2K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCA016GWZ-W		16K	UCSP30L1	x: 1.30 y: 0.77	0.35	0.4	—	—	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCB032GWZ-3		32K	UCSP30L1	x: 1.45 y: 0.77	0.33	0.4	—	—	4K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BRCH064GWZ-3		64K	UCSP30L1A	x: 1.50 y: 1.00	0.33	0.4	✓	—	8K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BRCB064GWZ-3		64K	UCSP30L1	x: 1.50 y: 1.00	0.35	0.4	—	WP	8K×8	1.6 to 5.5	3.9	2	5	−40 to +85	40
BRCE064GWZ-3		64K	UCSP25L1	x: 1.50 y: 1.00	0.30	0.4	—	—	8K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BU9897GUL-W		128K	VCSP50L2	x: 2.44 y: 1.99	0.55	0.5	✓	—	16K×8	1.7 to 5.5	2.5	2	5	−40 to +85	40
BU9832GUL-W	SPI	8K	VCSP50L2	x: 2.09 y: 1.85	0.55	0.5	✓	—	1K×8	1.8 to 5.5	3	2	5	−40 to +85	40
BU9829GUL-W		16K	VCSP50L1	x: 1.74 y: 1.65	0.55	0.5	✓	—	2K×8	1.6 to 3.6	2	1	5	−30 to +85	10
BR25S128GUZ-W		128K	VCSP35L2	x: 2.00 y: 2.63	0.40	0.5	✓	—	16K×8	1.7 to 5.5	2*	2	5	−40 to +85	40
BU9891GUL-W	MW	4K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	—	256×16	1.7 to 5.5	3	2	5	−40 to +85	40

WL-CSP EEPROM: *V_{CC}=2.5V

Plug & Play用EEPROM 用于存储器模块

Part No.	Package and Suffix		Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (kHz)	Write Cycle Time (ms)	Endurance (times)	Data Retention (years)	Write Protect
	TSSOP-B8	VSON008X2030							
BR34L02	FVT-W	–	256×8	1.7 to 5.5	100*1/400*2	5	10^6	40	Onetime ROM write protect
BR34E02	FVT-3/FVT-W	NUX-3/NUX-W	256×8	1.7 to 5.5/ 1.7 to 3.6	400	5	10^6	40	Settable write protect Onetime ROM write protect

Plug & Play用EEPROM 用于存储器模块: *1 V_{CC}=1.7～5.5V *2 V_{CC}=2.5～5.5V

Plug & Play用EEPROM 用于显示器

Part No.	Package and Suffix							Function Descriptions	Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (MHz)	Write Cycle Time (ms)
	SOP8	SOP-J8	SSOP-B8	SOP14	SSOP-B14	SSOP-B16	VSON008X2030					
BR24C21	F	FJ	FV	–	–	–	–	Supports DDC1/DDC2 for displays	128×8	2.5 to 5.5	100/400	10
BU9882	–	–	–	F-W	FV-W	–	–	Dual-port type compatible with DDC2 for displays	128×8×2ch	2.5 to 5.5	100/400	10
BU9883	–	–	–	–	–	FV-W	–	2Kbit×3ch EEPROM for HDMI ports	256×8×3ch	3.0 to 5.5	400	5
BU99022	–	–	–	–	–	–	NUX-3	2Kbit×2ch type	256×8×2ch	1.7 to 5.5	400	5

车载用EEPROM

125°C工作 I²C BUS EEPROM (2-Wire) BR24Hxxx-5AC系列

Part No.	Package and Suffix						Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030	VSON08AX2030				Operating (mA)	Standby (μA)						
BR24H01	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	1K	128×8	1.7 to 5.5	1.7	10	3.5	−40 to +125	$4×10^6$	100	FSs	YES
BR24H02	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	2K	256×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H04	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	4K	512×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H08	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	8K	1K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H16	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	16K	2K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H32	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	32K	4K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H64	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	64K	8K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	128K	16K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	256K	32K×8	1.7 to 5.5	1.7	10	3.5				FSs	
New BR24H512	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	–	512K	64K×8	1.7 to 5.5	3	20	3.5				FSs	
BR24H1M	F-5AC	FJ-5AC	FVT-5AC	–	–	–	1M	128K×8	2.5 to 5.5	3	20	3.5				FSs	

105°C工作 I²C BUS EEPROM (2-Wire) BR24Axx-WM系列

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	MSOP8				Operating (mA)	Standby (μA)						
BR24A01A	F-WM	FJ-WM	–	1K	128×8	2.5 to 5.5	2	2	5	−40 to +105	10^6	40	FSs	YES
BR24A02	F-WM	FJ-WM	FVM-WM	2K	256×8	2.5 to 5.5	2	2	5				FSs	
BR24A04	F-WM	FJ-WM	–	4K	512×8	2.5 to 5.5	2	2	5				FSs	
BR24A08	F-WM	FJ-WM	–	8K	1K×8	2.5 to 5.5	2	2	5				FSs	
BR24A16	F-WM	FJ-WM	–	16K	2K×8	2.5 to 5.5	2	2	5				FSs	
BR24A32	F-WM	–	–	32K	4K×8	2.5 to 5.5	3	2	5				FSs	
BR24A64	F-WM	–	–	64K	8K×8	2.5 to 5.5	3	2	5				FSs	

85°C工作 I²C BUS EEPROM (2-Wire) BR24Txx-3AM系列

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8				Operating (mA)	Standby (μA)						
BR24T512	F-3AM	FJ-3AM	FVT-3AM	512K	64K×8	1.7 to 5.5	4.5	3	5	−40 to +85	10^6	40	FSs	YES
BR24T1M	F-3AM	FJ-3AM	–	1M	128K×8	1.7 to 5.5	4.5	3	5				FSs	

125°C工作 Microwire BUS EEPROM (3-Wire) BR93Hxx-2C系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR93H46	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	1K	64×16	2.5 to 5.5	3	10	4	−40 to +125	10^6	100	FSs	YES
BR93H56	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	2K	128×16	2.5 to 5.5	3	10	4				FSs	
BR93H66	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	4K	256×16	2.5 to 5.5	3	10	4				FSs	
BR93H76	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	8K	512×16	2.5 to 5.5	3	10	4				FSs	
BR93H86	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	16K	1K×16	2.5 to 5.5	3	10	4				FSs	

105°C工作 Microwire BUS EEPROM (3-Wire) BR93Axx-WM系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR93A46	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	1K	64×16	2.5 to 5.5	3	2	5	−40 to +105	10^6	40	FSs	YES
BR93A56	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	2K	128×16	2.5 to 5.5	3	2	5				FSs	
BR93A66	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	4K	256×16	2.5 to 5.5	3	2	5				FSs	
BR93A76	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	8K	512×16	2.5 to 5.5	3	2	5				FSs	
BR93A86	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	16K	1K×16	2.5 to 5.5	3	2	5				FSs	

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车载用EEPROM

125℃工作 内置ECC功能 SPI BUS EEPROM BR25Hxxx-5AC系列

Part No.	Package and Suffix						Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (℃)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030	VSON08AX2030				Operating (mA)	Standby (μA)						
New BR25H010	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	1K	128×8	1.7 to 5.5	8	10	3.5	−40 to +125	4×10⁶	100	FSs	YES
New BR25H020	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	2K	256×8	1.7 to 5.5	8	10	3.5				FSs	
New BR25H040	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	4K	512×8	1.7 to 5.5	8	10	3.5				FSs	
New BR25H080	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	8K	1K×8	1.7 to 5.5	8	10	3.5				FSs	
New BR25H160	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	16K	2K×8	1.7 to 5.5	8	10	3.5				FSs	
New BR25H320	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	32K	4K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H640	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	64K	8K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	128K	16K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	256K	32K×8	1.7 to 5.5	8	10	3.5				FSs	
New BR25H512	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	–	512K	64K×8	1.7 to 5.5	8	20	3.5				FSs	
BR25H1M	F-5AC	FJ-5AC	FVT-5AC	–	–	–	1024K	128K×8	1.7 to 5.5	8	20	3.5				FSs	

125℃工作 内置ECC功能 SPI BUS EEPROM BR25Hxxx-2AC系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (℃)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR25H640	F-2AC	FJ-2AC	FVT-2AC	FVM-2AC	64K	8K×8	2.5 to 5.5	5.5	10	4	−40 to +125	10⁶	100	FSs	YES
BR25H128	F-2AC	FJ-2AC	FVT-2AC	–	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H256	F-2AC	FJ-2AC	–	–	256K	32K×8	2.5 to 5.5	5.5	10	4				FSs	

125℃工作 SPI BUS EEPROM BR25Hxxx-2C系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (℃)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR25H010	F-2C	FJ-2C	FVT-2C	FVM-2C	1K	128×8	2.5 to 5.5	4	10	4	−40 to +125	10⁶	100	FSs	YES
BR25H020	F-2C	FJ-2C	FVT-2C	FVM-2C	2K	256×8	2.5 to 5.5	4	10	4				FSs	
BR25H040	F-2C	FJ-2C	FVT-2C	FVM-2C	4K	512×8	2.5 to 5.5	4	10	4				FSs	
BR25H080	F-2C	FJ-2C	FVT-2C	FVM-2C	8K	1K×8	2.5 to 5.5	4	10	4				FSs	
BR25H160	F-2C	FJ-2C	FVT-2C	FVM-2C	16K	2K×8	2.5 to 5.5	4	10	4				FSs	
BR25H320	F-2C	FJ-2C	FVT-2C	FVM-2C	32K	4K×8	2.5 to 5.5	4	10	4				FSs	
BR25H640	F-2C	FJ-2C	FVT-2C	–	64K	8K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H128	F-2C	FJ-2C	–	–	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	

105℃工作 SPI BUS EEPROM BR25Axxx-3M系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (℃)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR25A256	F-3M	FJ-3M	FVT-3M	–	256K	32K×8	2.5 to 5.5	4	10	5	−40 to +105	10⁶	100	FSs	YES
BR25A512	F-3M	FJ-3M	FVT-3M	–	512K	64K×8	2.5 to 5.5	4	10	5				FSs	
BR25A1M	F-3M	FJ-3M	–	–	1M	128K×8	2.5 to 5.5	4	10	5				FSs	

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运算放大器/比较器

运算放大器	P.13	比较器	P.18

运算放大器

通用	P.13	高速	P.14
低消耗电流	P.15	低噪声	P.17
低偏置电压	P.17	高性能	P.17

比较器

通用	P.18	高速	P.19
低消耗电流	P.19		

运算放大器

通用

接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BA2904/ BA2904S	2	3 to 36	0.5	2.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125/ −40 to +105	SOP8	F
															SSOP-B8	FV
															MSOP8	FVM
BA2904Y	2	3 to 36	0.5	2.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP8	F-LB
BA2902/ BA2902S	4	3 to 36	0.7	2.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125/ −40 to +105	SOP14	F
															SSOP-B14	FV
BA2902Y	4	3 to 36	0.7	2.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP14	F-LB
BA3404	2	4 to 36	2.0	2.0	70	30	V_{EE} to V_{CC}−2.0	V_{EE} to V_{CC}−2.0	100	90	94	1.2	1.2	−40 to +85	SOP8	F
															MSOP8	FVM
LM2902	4	3 to 32	1.0	1.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.3	0.8	−40 to +125	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LM2904	2	3 to 32	0.6	1.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.3	0.8	−40 to +125	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT
LM324	4	3 to 32	1.0	1.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE}+0.01 to V_{CC}−1.5	100	80	100	0.3	0.8	−40 to +85	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LM358	2	3 to 32	0.6	1.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE}+0.01 to V_{CC}−1.5	100	80	100	0.3	0.8	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT

车载用接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA2904Y	2	3 to 36	0.5	2.0 (Max: 3.5)	20 (Max: 60)	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP8	F-C	FSs	YES
															SSOP-B8	FV-C	FSs	YES
															MSOP8	FVM-C	FSs	YES
BA2902Y	4	3 to 36	0.7	2.0 (Max: 3.8)	20 (Max: 60)	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP14	F-C	FSs	YES
															SSOP-B14	FV-C	FSs	YES
BA2904Y	2	3 to 36	0.5	2.0 (Max: 7.0)	20 (Max: 250)	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA2902Y	4	3 to 36	0.7	2.0 (Max: 7.0)	20 (Max: 250)	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP14	F-M	FSs	YES
															SSOP-B14	FV-M	FSs	YES

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通用

车载用高EMI耐受力接地检测运算放大器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LM2904EY	2	3 to 36	0.6	2.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +150	SOP8	F-C	FSs	YES
															SOP-J8	FJ-C	FSs	YES
															MSOP8	FVM-C	FSs	YES
BA82904Y	2	3 to 36	0.5	2.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP8	F-C	FSs	YES
															MSOP8	FVM-C	FSs	YES
BA82902Y	4	3 to 36	0.7	2.0	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	−40 to +125	SOP14	F-C	FSs	YES
															SOP-J14	FJ-C	FSs	YES
															SSOP-B14	FV-C	FSs	YES
															TSSOP-B14J	FVJ-C	FSs	YES

车载用高EMI耐受力输入输出轨到轨运算放大器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD87581Y	1	4 to 14	2.3	1	0.001	3.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	60	80	3.5	4	−40 to +125	SSOP5	G-C	FSs	YES
BD87582Y	2	4 to 14	5	1	0.001	3.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	60	80	3.5	4	−40 to +125	MSOP8	FVM-C	FSs	YES
BD87584Y	4	4 to 14	10	1	0.001	3.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	60	80	3.5	4	−40 to +125	SSOP-B14	FV-C	FSs	YES
New BD87554Y	4	4 to 15	7.9	1	0.001	9.3	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	80	90	2.4	2	−40 to +125	SSOP-B14	FV-C	FSs	YES

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EMARMOUR™系列实现了超高级别的抗噪量。
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高速

输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BU7261/ BU7261S	1	1.8 to 5.5	250	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.1	2.0	−40 to +85/ −40 to +105	SSOP5	G
BU7262/ BU7262S	2	1.8 to 5.5	550	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.1	2.0	−40 to +85/ −40 to +105	SOP8	F
															MSOP8	FVM
															VSON008X2030	NUX
BU7264/ BU7264S	4	1.8 to 5.5	1,100	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.1	2.0	−40 to +85/ −40 to +105	SOP14	F
															SSOP-B14	FV
BU7291/ BU7291S	1	2.4 to 5.5	470	1.0	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	3.0	2.8	−40 to +85/ −40 to +105	SSOP5	G
BU7294/ BU7294S	4	2.4 to 5.5	2,000	1.0	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	3.0	2.8	−40 to +85/ −40 to +105	SOP14	F
															SSOP-B14	FV
BU7295/ BU7295S	1	1.8 to 5.5	150	1.0	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.0	1.0	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7255/ BU7255S	1	2.4 to 5.5	540	1.0	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	3.4	4.0	−40 to +85/ −40 to +105	HVSOF5	HFV
BD7561/ BD7561S	1	5.0 to 14.5	440	1.0	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.9	1.0	−40 to +85/ −40 to +105	SSOP5	G
BD7562/ BD7562S	2	5.0 to 14.5	900	1.0	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.9	1.0	−40 to +85/ −40 to +105	SOP8	F
															MSOP8	FVM

车载用输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BU7264Y	4	1.8 to 5.5	1,100	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.1	2.0	−40 to +125	SSOP-B14	FV-C

接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BA3472	2	3 to 36	4.0	1.0	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	10.0	4.0	−40 to +85	SOP8	F
															SSOP-B8	FV
															SOP-J8	FJ
															MSOP8	FVM
BA3472R														−40 to +105	MSOP8	FVM
BA3472Y														−40 to +125	SOP8	F-LB
BA3474	4	3 to 36	8.0	1.0	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	10.0	4.0	−40 to +75	SOP14	F
														−40 to +85	SSOP-B14	FV
															TSSOP-B14J	FVJ
BA3474R														−40 to +105	SSOP-B14	FV
BU7461/ BU7461S	1	1.7 to 5.5	0.15	1.0	0.001	8	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.0	1.0	−40 to +85/ −40 to +105	SSOP5	G
BU7462/ BU7462S	2	1.7 to 5.5	0.3	1.0	0.001	8	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.0	1.0	−40 to +85/ −40 to +105	SOP8	F
															MSOP8	FVM
															VSON008X2030	NUX
BU7464/ BU7464S	4	1.7 to 5.5	0.6	1.0	0.001	8	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.0	1.0	−40 to +85/ −40 to +105	SOP14	F
BU7465/ BU7465S	1	1.7 to 5.5	0.12	1.0	0.001	8	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	1.0	1.2	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7481/ BU7481S	1	1.8 to 5.5	0.42	1.0	0.001	8	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	3.2	2.8	−40 to +85/ −40 to +105	SSOP5	G
BU7485/ BU7485S	1	3.0 to 5.5	1.5	1.0	0.001	8	V_{SS} to V_{DD}−1.4	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	10.0	10.0	−40 to +85/ −40 to +105	SSOP5	G
BU7486/ BU7486S	2	3.0 to 5.5	3.0	1.0	0.001	8	V_{SS} to V_{DD}−1.4	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	10.0	10.0	−40 to +85/ −40 to +105	SOP8	F
															SSOP-B8	FV
															MSOP8	FVM
BU7487/ BU7487S	4	3.0 to 5.5	6.0	1.0	0.001	8	V_{SS} to V_{DD}−1.4	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	10.0	10.0	−40 to +85/ −40 to +105	SOP14	F
															SSOP-B14	FV
BU7495/ BU7495S	1	1.8 to 5.5	0.65	1.0	0.001	7	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	5.0	4.0	−40 to +85/ −40 to +105	HVSOF5	HFV

车载用接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA3472Y/ BA3472W	2	3 to 36	4.0	1.0 (Max: 10.0)/ 1.0 (Max: 7.5)	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	10	4.0	−40 to +125	SOP8/—	F-C	FSs	YES
															SSOP-B8	FV-C		YES
															MSOP8/—	FVM-C		YES
BA3474Y/ BA3474W	4	3 to 36	8.0	1.0 (Max: 10.0)/ 1.0 (Max: 7.5)	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	10	4.0	−40 to +125	SSOP-B14	FV-C	—/FSs	YES
															SSOP-B14			YES

车载用高EMI耐受力接地检测运算放大器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA83472Y	2	3 to 36	4.3	1	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	8.5	3	−40 to +125	SOP8	F-C	FSs	YES
															MSOP8	FVM-C		
BA83474Y	4	3 to 36	8.6	1	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	8.5	3	−40 to +125	SSOP-B14	FV-C	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

EMARMOUR™系列实现了超高级别的抗噪量。
EMARMOUR™ 是ROHM Co., Ltd.的商标或注册商标。

低消耗电流

输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BU7205/ BU7205S	1	1.8 to 5.5	0.4	1.0	0.001	1.2	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0025	0.0025	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7241/ BU7241S	1	1.8 to 5.5	70	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.4	0.9	−40 to +85/ −40 to +105	SSOP5	G
BU7242/ BU7242S	2	1.8 to 5.5	180	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.4	0.9	−40 to +85/ −40 to +105	SOP8	F
															MSOP8	FVM
															VSON008X2030	NUX
BU7244/ BU7244S	4	1.8 to 5.5	360	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.4	0.9	−40 to +85/ −40 to +105	SOP14	F
															SSOP-B14	FV
BU7245/ BU7245S	1	1.8 to 5.5	5	1.0	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.035	0.09	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7265/ BU7265S	1	1.8 to 5.5	0.35	1.0	0.001	2.4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0024	0.004	−40 to +85/ −40 to +105	SSOP5	G
BU7266/ BU7266S	2	1.8 to 5.5	0.7	1.0	0.001	2.4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0024	0.004	−40 to +85/ −40 to +105	SOP8	F
															SSOP-B8	FV
															MSOP8	FVM
BU7271/ BU7271S	1	1.8 to 5.5	8.6	1.0	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.05	0.09	−40 to +85/ −40 to +105	SSOP5	G
BU7275/ BU7275S	1	1.8 to 5.5	40	1.0	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	−40 to +85/ −40 to +105	HVSOF5	HFV
BD12730	1	1.8 to 5.5	320	1.0	50	5	GND to V+	0.1 to V+−0.1	85	70	85	0.4	1.0	−40 to +85	SSOP5	G
BD12732	2	1.8 to 5.5	580	1.0	50	5	GND to V+	0.1 to V+−0.1	85	70	85	0.4	1.0	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT
BD12734	4	1.8 to 5.5	1,200	1.0	50	5	GND to V+	0.1 to V+−0.1	85	70	85	0.4	1.0	−40 to +85	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
BD7541/ BD7541S	1	5.0 to 14.5	180	1.0	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	−40 to +85/ −40 to +105	SSOP5	G
BD7542/ BD7542S	2	5.0 to 14.5	400	1.0	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	−40 to +85/ −40 to +105	SOP8	F
															MSOP8	FVM
LMR931	1	1.8 to 5.0	80	1.0	5	28	V_{SS} to V_{DD}	V_{SS}+0.04 to V_{DD}−0.05	100	94	85	0.4	1.4	−40 to +85	SSOP5	G
LMR932	2	1.8 to 5.0	135	1.0	5	28	V_{SS} to V_{DD}	V_{SS}+0.04 to V_{DD}−0.05	100	94	85	0.4	1.4	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT
LMR934	4	1.8 to 5.0	250	1.0	5	28	V_{SS} to V_{DD}	V_{SS}+0.04 to V_{DD}−0.05	100	94	85	0.4	1.4	−40 to +85	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LMR981	1	1.8 to 5.0	80	1.0	5	28	V_{SS} to V_{DD}	V_{SS}+0.04 to V_{DD}−0.05	100	94	85	0.4	1.4	−40 to +85	SSOP6	G
LMR982	2	1.8 to 5.0	135	1.0	5	28	V_{SS} to V_{DD}	V_{SS}+0.04 to V_{DD}−0.05	100	94	85	0.4	1.4	−40 to +85	MSOP10	FVM

低消耗电流

接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BU7411/ BU7411S	1	1.6 to 5.5	0.35	1.0	0.001	2.4	V_{SS} to V_{DD}−1.0	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0024	0.004	−40 to +85/ −40 to +105	SSOP5	G
BU7421/ BU7421S	1	1.7 to 5.5	8.5	1.0	0.001	4	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.05	0.09	−40 to +85/ −40 to +105	SSOP5	G
BU7441/ BU7441S	1	1.7 to 5.5	50	1.0	0.001	6	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	−40 to +85/ −40 to +105	SSOP5	G
BU7442/ BU7442S	2	1.7 to 5.5	100	1.0	0.001	6	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	−40 to +85/ −40 to +105	SOP8	F
															MSOP8	FVM
															VSON008X2030	NUX
BU7444S	4	1.7 to 5.5	200	1.0	0.001	6	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	−40 to +85/ −40 to +105	SOP14	F
BU7445/ BU7445S	1	1.7 to 5.5	40	1.0	0.001	8	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.25	0.4	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7475/ BU7475S	1	1.7 to 5.5	9	1.0	0.001	7	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.05	0.1	−40 to +85/ −40 to +105	HVSOF5	HFV
BD1321	1	2.7 to 5.5	130	0.1	15	70	V_{EE} to V_{CC}−0.8	V_{EE}+0.08 to V_{CC}−0.04	110	90	90	1.0	3.0	−40 to +85	SSOP5	G
LMR321	1	2.7 to 5.5	130	0.1	15	70	V_{EE} to V_{CC}−0.8	V_{EE}+0.08 to V_{CC}−0.04	110	90	90	1.0	3.0	−40 to +85	SSOP5	G
LMR324	4	2.7 to 5.5	410	1.0	15	70	V_{EE} to V_{CC}−0.8	V_{EE}+0.08 to V_{CC}−0.04	110	90	90	1.0	3.0	−40 to +85	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LMR341	1	2.7 to 5.5	100	0.25	0.001	24	V_{SS} to V_{DD}−1.0	V_{SS}+0.06 to V_{DD}−0.06	103	80	85	1.0	2.0	−40 to +85	SSOP6	G
LMR342	2	2.7 to 5.5	200	0.25	0.001	24	V_{SS} to V_{DD}−1.0	V_{SS}+0.06 to V_{DD}−0.06	103	80	85	1.0	2.0	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT
LMR344	4	2.7 to 5.5	400	0.25	0.001	24	V_{SS} to V_{DD}−1.0	V_{SS}+0.06 to V_{DD}−0.06	103	80	85	1.0	2.0	−40 to +85	SOP14	F
															SOP-J14	FJ
															TSSOP-B14J	FVJ
LMR358	2	2.7 to 5.5	210	0.1	15	70	V_{EE} to V_{CC}−0.8	V_{EE}+0.08 to V_{CC}−0.04	110	90	90	1.0	3.0	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT
LMR821	1	2.5 to 5.5	280	1.0	30	16	V_{SS} to V_{DD}−0.9	V_{SS}+0.12 to V_{DD}−0.1	100	85	85	2.0	5.0	−40 to +85	SSOP5	G
LMR822	2	2.5 to 5.5	560	1.0	30	16	V_{SS} to V_{DD}−0.9	V_{SS}+0.12 to V_{DD}−0.1	100	85	85	2.0	5.0	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT
LMR824	4	2.5 to 5.5	1,120	1.0	30	16	V_{SS} to V_{DD}−0.9	V_{SS}+0.12 to V_{DD}−0.1	100	85	85	2.0	5.0	−40 to +85	SOP14	F
															SOP-J14	FJ
															TSSOP-B14J	FVJ
TLR341	1	1.8 to 5.5	70	0.3	0.001	8	V_{SS} to V_{DD}−1.0	V_{SS}+0.055 to V_{DD}−0.05	100	90	95	1.2	2.2	−40 to +85	SSOP6	G
TLR342	2	1.8 to 5.5	150	0.3	0.001	8	V_{SS} to V_{DD}−1.0	V_{SS}+0.055 to V_{DD}−0.05	100	85	95	1.0	1.2	−40 to +85	SOP8	F
															SOP-J8	FJ
															TSSOP-B8J	FVJ
															TSSOP-B8	FVT
TLR344	4	1.8 to 5.5	300	0.3	0.001	8	V_{SS} to V_{DD}−1.0	V_{SS}+0.055 to V_{DD}−0.05	100	90	95	1.2	2.2	−40 to +85	SOP14	F
															SOP-J14	FJ
															TSSOP-B14J	FVJ

车载用输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7241Y	1	1.8 to 5.5	70	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.05 to V_{DD}−0.05	100	70	80	0.4	1.0	−40 to +125	SSOP5	G-C	FSs	YES
BU7242Y	2	1.8 to 5.5	180	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.05 to V_{DD}−0.05	100	70	80	0.4	1.0	−40 to +125	MSOP8	FVM-C	FSs	YES
BU7244Y	4	1.8 to 5.5	360	1.0	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.05 to V_{DD}−0.05	100	70	80	0.4	1.0	−40 to +125	SSOP-B14	FV-C	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

低噪声

输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μVrms)	Input Voltag (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BA4510	2	±1 to ±3.5	5.0	1.0	80	0.7	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+0.1 to V_{CC}−0.1	90	80	80	5.0	10.0	−20 to +75	SOP8	F
															SSOP-B8	FV
														−40 to +75	MSOP8	FVM
															TSSOP-B8	FVT
BA2107	1	±1 to ±7	1.8	1.0	150	0.9	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+0.1 to V_{CC}−0.1	80	74	80	4.0	12.0	−40 to +85	SSOP5	G
BA2115	2	±1 to ±7	3.5	1.0	150	0.9	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+0.1 to V_{CC}−0.1	80	74	80	4.0	12.0	−40 to +85	SOP8	F
															MSOP8	FVM

车载用运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μVrms)	Input Voltag (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA4558Y	2	±4 to ±15	3.0	0.5	60	1.8	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	1.0	2.0	−40 to +105	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4560Y	2	±4 to ±15	3.0	0.5	50	1.0	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	4.0	4.0	−40 to +105	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4580Y	2	±2 to ±16	6.0	0.3	100	0.8	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5.0	10.0	−40 to +105	SOP8	F-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4584Y	4	±2 to ±16	11.0	0.3	100	0.8	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5.0	10.0	−40 to +105	SSOP-B14	FV-M	FSs	YES

双电源运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μVrms)	Input Voltag (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BA4558/ BA4558R	2	±4 to ±15	3.0	0.5	60	1.8	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	1.0	2.0	−40 to +85/ −40 to +105	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															MSOP8	FVM
															TSSOP-B8	FVT
BA4560/ BA4560R	2	±4 to ±15	4.0	0.5	50	1.0	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	4.0	10.0	−40 to +85/ −40 to +105	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															MSOP8	FVM
															TSSOP-B8	FVT
BA4564R	4	±4 to ±15	6.0	0.5	50	1.0	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	4.0	4.0	−40 to +105	SSOP-B14	FV
BA15218	2	±2 to ±16	5.0	0.5	50	1.0	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+2.0 to V_{CC}−2.0	110	90	90	3.0	10.0	−40 to +85	SOP8	F
BA14741	4	±2 to ±18	3.0	1.0	60	2.0	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+2.5 to V_{CC}−2.5	100	100	100	1.0	2.0	−40 to +85	SOP14	F
BA4580R	2	±2 to ±16	6.0	0.3	100	0.8	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5.0	5.0	−40 to +105	SOP8	F
															SOP-J8	FJ
															MSOP8	FVM
															TSSOP-B8	FVT
BA4584	4	±2 to ±16	12.0	0.3	100	0.8	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5.0	5.0	−40 to +85	SSOP-B14	FV
BA4584R	4	±2 to ±9.5	11.0	0.3	100	0.8	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5.0	5.0	−40 to +105	SOP14	F
															SSOP-B14	FV
LM4559	2	±4 to ±18	3.3	0.5	40	0.7	V_{EE}+2.0 to V_{CC}−2.0	V_{EE}+1.5 to V_{CC}−1.5	110	100	100	3.5	4.0	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8	FVT
															MSOP8	FVM
															TSSOP-B8J	FVJ
LM4565	2	±4 to ±18	4.5	0.5	70	0.6	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	100	100	5.0	10.0	−40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8	FVT
															MSOP8	FVM
															TSSOP-B8J	FVJ

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低偏置电压

双电源运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BA4564W	4	±4 to ±15	6.0	0.5	50	25	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	4.0	4.0	−40 to +105	SSOP-B14	FV

输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BD5291	1	1.7 to 5.5	0.65	0.1	0.001	6	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	110	90	90	2.5	3.2	−40 to +85	SSOP5	G
															VSOF5	FVE

高性能

超低噪声接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/√Hz)	Operating Temperature (°C)	Package	Part No. Suffix
LMR1801	1	2.2 to 5.5	0.95	5 (Max: 900)	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.05 to V_{DD}−0.05	140	100	125	2.5	6.0	5.0	−40 to +125	SSOP5	G-LB
																HVSOF5	HFV-LB
LMR1802	1	2.5 to 5.5	1.1	5 (Max: 450)	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.05 to V_{DD}−0.05	140	105	125	1.1	3.0	2.9	−40 to +125	SSOP5	G-LB
LMR1803	1	2.2 to 5.5	1.0	5 (Max: 150)	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.05 to V_{DD}−0.05	140	100	110	2.5	6.0	5.0	−40 to +125	SSOP5	G-LB

高精度输入/输出轨到轨CMOS运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
New TLR377	1	2.5 to 5.5	0.585	1.7 (Max: 1500)	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	−40 to +125	HVSOF5	HFV-LB

高性能

高速接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
LMR1701	1	2.7 to 5.5	9.6	1	0.0026	200	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.1$ to $V_{DD}-0.1$	120	80	86	80	150	−40 to +125	SSOP6	G-LB

高EMI耐受力 高速接地检测运算放大器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
Nano BD77501	1	7 to 15	1.3	4	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.25$ to $V_{DD}-0.25$	75	70	70	10	8	−40 to +85	SSOP5	G
Nano BD77502	2	7 to 15	2.6	4	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.25$ to $V_{DD}-0.25$	75	70	70	10	8	−40 to +85	MSOP8	FVM
Nano BD77504	4	7 to 15	5.2	4	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.25$ to $V_{DD}-0.25$	75	70	70	10	8	−40 to +85	SSOP-B14	FV

车载用超低噪声接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/√Hz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LMR1801Y	1	2.2 to 5.5	0.95	5 (Max: 950)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.05$ to $V_{DD}-0.05$	140	100	110	2.5	6.0	5	−40 to +125	SSOP5	G-C	FSs	YES
LMR1802Y	1	2.5 to 5.5	1.1	5 (Max: 450)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.05$ to $V_{DD}-0.05$	140	105	125	1.1	4.4	2.9	−40 to +125	SSOP5	G-C	FSs	YES
New LMR1803Y	1	2.2 to 5.5	1	5 (Max: 150)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.003$ to $V_{DD}-0.007$	140	100	110	2.5	6	5	−40 to +125	SSOP5	G-C	FSs	YES

车载用低噪声输入输出轨到轨高速运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/√Hz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano BD7281Y	1	2.2 to 5.5	1.7	0.01 (Max: 2)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.010$ to $V_{DD}-0.010$	115	100	100	10	7	12	−40 to +125	SSOP5	G-C	FSs	YES

车载用高精度输入/输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
TLR376Y	1	2.5 to 5.5	0.645	1.7 (Max: 550)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	−40 to +125	SSOP5	G-C	FSs	YES
TLR377Y	1	2.5 to 5.5	0.645	1.7 (Max: 1300)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	−40 to +125	SSOP5	G-C	FSs	YES
TLR2376Y	2	2.5 to 5.5	1.245	1.7 (Max: 550)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	−40 to +125	MSOP8	FVM-C	FSs	YES
															SOP-J8	FJ-C	FSs	YES
TLR2377Y	2	2.5 to 5.5	1.245	1.7 (Max: 1300)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	−40 to +125	MSOP8	FVM-C	FSs	YES
															SOP-J8	FJ-C	FSs	YES
New TLR4376Y	4	2.5 to 5.5	2.49	1.7 (Max: 550)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	−40 to +125	SSOP-B14	FV-C	FSs	YES
New TLR4377Y	4	2.5 to 5.5	2.49	1.7 (Max: 1300)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	−40 to +125	SSOP-B14	FV-C	FSs	YES

车载用高速接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	Automotive Grade AEC-Q100
LMR1701Y	1	2.7 to 5.5	9.6	1	0.0026	200	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.1$ to $V_{DD}-0.1$	120	80	86	80	150	−40 to +125	SSOP6	G-C	YES

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比较器

通用

集电极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BA2901/ BA2901S	4	2 to 36	0.8	2	50	16	V_{EE} to $V_{CC}-1.5$	100	1.3	−40 to +125/ −40 to +105	SOP14	F
											SSOP-B14	FV
BA2901Y	4	2 to 36	0.8	2	50	16	V_{EE} to $V_{CC}-1.5$	100	1.3	−40 to +125	SOP14	F-LB
BA2903/ BA2903S	2	2 to 36	0.6	2	50	16	V_{EE} to $V_{CC}-1.5$	100	1.3	−40 to +125/ −40 to +105	SOP8	F
											SSOP-B8	FV
											MSOP8	FVM
BA2903Y	2	2 to 36	0.6	2	50	16	V_{EE} to $V_{CC}-1.5$	100	1.3	−40 to +125	SOP8	F-LB
BA8391	1	2 to 36	0.3	2	50	16	V_{EE} to $V_{CC}-1.5$	100	1.3	−40 to +85	SSOP5	G
LM2901	4	3 to 32	1.2	1	50	16	V_{EE} to $V_{CC}-1.5$	120	1.0	−40 to +125	SOP14	F
											SOP-J14	FJ
											SSOP-B14	FV
											TSSOP-B14J	FVJ
LM2903	2	3 to 32	0.6	1	50	16	V_{EE} to $V_{CC}-1.5$	120	1.0	−40 to +125	SOP8	F
											SOP-J8	FJ
											SSOP-B8	FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
											TSSOP-B8	FVT
LM339	4	3 to 32	1.2	1	50	16	V_{EE} to $V_{CC}-1.5$	120	1.0	−40 to +85	SOP14	F
											SOP-J14	FJ
											SSOP-B14	FV
											TSSOP-B14J	FVJ
LM393	2	3 to 32	0.6	1	50	16	V_{EE} to $V_{CC}-1.5$	120	1.0	−40 to +85	SOP8	F
											SOP-J8	FJ
											SSOP-B8	FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
											TSSOP-B8	FVT

车载用集电极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA2903Y	2	2 to 36	0.6	2 (Max: 4)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP8	F-C	FSs	YES
											SSOP-B8	FV-C	FSs	YES
											MSOP8	FVM-C	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 4)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP14	F-C	FSs	YES
											SSOP-B14	FV-C	FSs	YES
BA2903Y	2	2 to 36	0.6	2 (Max: 7)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP8	F-M	FSs	YES
											SSOP-B8	FV-M	FSs	YES
											MSOP8	FVM-M	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 7)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP14	F-M	FSs	YES
											SSOP-B14	FV-M	FSs	YES

车载用高EMI耐受力集电极开路比较器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA82903Y	2	2 to 36	0.6	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP8	F-C	FSs	YES
											MSOP8	FVM-C	FSs	YES
BA82901Y	4		0.8								SOP14	F-C	FSs	YES
											SSOP-B14	FV-C	FSs	YES
LM2901EY	4	3 to 32	1.2	2	50	16	V_{EE} to V_{CC}−1.5	120	1.3	−40 to +150	SSOP-B14	FV-C	FSs	YES
LM2903EY	2		0.6	2			V_{EE} to V_{CC}−1.5	120	1.3		SOP-J8	FJ-C	FSs	YES

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高速

推挽输出比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7251/ BU7251S	1	1.8 to 5.5	15	1	0.001	6	V_{SS} to V_{DD}	90	0.55	−40 to +85/ −40 to +105	SSOP5	G
BU7252/ BU7252S	2	1.8 to 5.5	35	1	0.001	6	V_{SS} to V_{DD}	90	0.55	−40 to +85/ −40 to +105	SOP8	F
											MSOP8	FVM
BU5265/ BU5265S	1	1.8 to 5.5	22	1	0.001	3.5	V_{SS} to V_{DD}	90	0.5	−40 to +85/ −40 to +105	HVSOF5	HFV

漏极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7250/ BU7250S	1	1.8 to 5.5	15	1	0.001	6	V_{SS} to V_{DD}	90	0.75	−40 to +85/ −40 to +105	SSOP5	G
BU7253/ BU7253S	2	1.8 to 5.5	35	1	0.001	6	V_{SS} to V_{DD}	90	0.75	−40 to +85/ −40 to +105	SOP8	F

低消耗电流

推挽输出比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7231/ BU7231S	1	1.8 to 5.5	5	1	0.001	6	V_{SS} to V_{DD}	90	1.7	−40 to +85/ −40 to +105	SSOP5	G
BU7232/ BU7232S	2	1.8 to 5.5	10	1	0.001	6	V_{SS} to V_{DD}	90	1.7	−40 to +85/ −40 to +105	SOP8	F
											MSOP8	FVM
BU5255/ BU5255S	1	1.8 to 5.5	6.5	1	0.001	3.5	V_{SS} to V_{DD}	90	1.6	−40 to +85/ −40 to +105	HVSOF5	HFV

车载用推挽输出比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7232Y	2	1.8 to 5.5	10	1	0.001	7	V_{SS} to V_{DD}	100	1.7	−40 to +125	MSOP8	FVM-C	FSs	YES

漏极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7230/ BU7230S	1	1.8 to 5.5	5	1	0.001	6	V_{SS} to V_{DD}	90	1.8	−40 to +85/ −40 to +105	SSOP5	G
BU7233/ BU7233S	2	1.8 to 5.5	10	1	0.001	6	V_{SS} to V_{DD}	90	1.8	−40 to +85/ −40 to +105	SOP8	F

车载用漏极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7233Y	2	1.8 to 5.5	10	1	0.001	7	V_{SS} to V_{DD}	100	1.8	−40 to +125	SOP8	F-C	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

时钟/计时器

高性能时钟发生器	P.20	CR控制方式计时器IC	P.20

高性能时钟发生器

数码相机用时钟发生器

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Video Clock (The output which can be selected) (MHz)	CCD Clock (The output which can be selected) (MHz)	USB Clock (MHz)	Jitter 1σ Typ (ps)	Package
BU2394KN	3.0 to 3.6	14.318182/ 28.636363	14.318182/ 17.734450	135.000000/ 108.000000/ 98.181818/ 110.000000	48.008022	30	VQFN20
BU2396KN	3.0 to 3.6	12.000000	27.000000	24.000000/ 30.000000/ 36.000000	12.000000	50	VQFN20

A/V设备用DVD-Video标准时钟发生器

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Output Frequency (MHz)									Jitter 1σ Typ (ps)	Long-term Jitter P-P Typ (ns)	Package
			DVD-Video Clock			DVD, Audio, CD Clock (The output which can be switched)				System Clock				
			Video1	Video2	Video3	768fs	512fs	384fs	Other	768fs	384fs	Other		
BU2360FV	2.7 to 3.6	27.0000	27.0000	–	–	–	24.5760/ 22.5792	–	–	33.8688	–	–	70	2.5 (Audio)	SSOP-B16
BU2362FV	2.7 to 3.6	27.0000	27.0000	–	–	–	24.5760/ 22.5792	–	36.8640/ 16.9344	33.8688	16.9344	36.864	70	12 (Audio)	SSOP-B16

A/V设备用VCXO内置时钟发生器

Part No.	Supply Voltage (V)	VCXO (Reference Clock)	Clock Buffer	PLL Output Frequency (MHz)								Jitter 1σ Typ (ps)	C/N Typ (dB)	Package
				DVD-Video Clock			DVD, Audio, CD Clock (The output which can be switched)	System Clock						
				Video1	Video2	Video3	768fs	768fs	512fs	384fs	Other			
BU3087FV	3.135 to 3.465	Tuning range 27MHz±105ppm Typ	–	27.000000	–	74.250000 Modulation/ ±0.25%, ±0.50%, ±0.75%, ±1.00%	–	–	–	–	–	30	HD-Video -70	SSOP-B16

数码相机用时钟发生器可生成CCD, USB和Video 3种时钟
A/V设备用DVD-Video标准时钟发生器采用DVD-Video时钟标准生成DVD/CD-Audio, DVD-Video时钟
A/V设备用VCXO内置时钟发生器内置VCXO功能，实现高精度外部同步

CR控制方式计时器IC

CR控制方式计时器IC

Part No.	Supply Voltage (V)	PWM Frequency (Hz)	Duty (%)	Circuit Current (mA)	Function	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD9555FVM-C	4.5 to 42.0	1 to 10k	1 to 99	1	PWM/Duty 100% Switching terminal	−40 to +125	MSOP8	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

开关/IPD/多路转换器/逻辑

车载用标准逻辑IC	P.21	标准逻辑IC	P.21
串行输入/并行输出驱动器	P.22	USB开关IC	P.22
IPD(智能功率开关)	P.22		

车载用标准逻辑IC

逻辑门(单路)

Type	Package/Part No.		Function	Supply Voltage (V)	H Input Voltage (Min) (V)	L Input Voltage (Min) (V)	Operating Temperature (°C)	Output Delay Time V_{CC}=4.5V to 5.5V (Max) (ns)	Automotive Grade AEC-Q100
	SSOP5	SSOP6							
BD7LS00	BD7LS00G-C	—	Single 2-input NAND gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	10.0	YES
BD7LS02	BD7LS02G-C	—	Single 2-input NOR gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	10.0	YES
BD7LS04	BD7LS04G-C	—	Single Inverter	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	10.0	YES
BD7LS08	BD7LS08G-C	—	Single 2-input AND gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	10.0	YES
BD7LS07	BD7LS07G-C	—	Single Buffer with Open-drain	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	9.0	YES
BD7LS14	BD7LS14G-C	—	Single Schmitt Trigger Inverter	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	11.0	YES
BD7LS17	BD7LS17G-C	—	Single Schmitt Trigger Buffer	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	11.0	YES
BD7LS32	BD7LS32G-C	—	Single 2-input OR gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	10.0	YES
BD7LS34	BD7LS34G-C	—	Single Buffer	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	10.0	YES
BD7LS125	BD7LS125G-C	—	Single 3-state Buffer	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	10.0	YES
BD7LS97	—	BD7LS97G-C	Configurable Function gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	−40 to +125	13.0	YES

标准逻辑IC

模拟开关/模拟开关(单路)

Type	Function	Supply Voltage (V)	Input Voltage (V)		ON Resistance (Max) (Ω)	Control-Output Propagation Delay Time (Typ) (ns)	IN-Out Propagation Delay Time (Typ) (ns)	Max Propagation Frequency (Typ) (MHz)	Package/Part No.		
			H Level (Min)	L Level (Max)					SOP14	SSOP-B14	SSOP5
BU4066BC	Quad Analog Switch	3 to 18	3.5	1.5	950	60	20	—	BU4066BCF	BU4066BCFV	—
BU4S66	Single Analog Switch	3 to 16	3.5	1.5	950	80	15	—	—	—	BU4S66G2

多路转换器

Type	Function	Supply Voltage (V)	Input Voltage (V)		ON Resistance (Max) (Ω)	Control-Output Propagation Delay Time (Typ) (ns)	IN-Out Propagation Delay Time (Typ) (ns)	Max Propagation Frequency (Typ) (MHz)	Package/Part No.	
			H Level (Min)	L Level (Max)					SOP16	SSOP-B16
BU4051BC	Analog Multiplexer/Demultiplexer (8↔1)	3 to 18	3.5	1.5	950	170	15	20	BU4051BCF	BU4051BCFV
BU4052BC	Dual Analog Multiplexer/Demultiplexer (4↔1)	3 to 18	3.5	1.5	950	170	15	20	BU4052BCF	BU4052BCFV
BU4551B	Quad Analog Multiplexer/Demultiplexer (2↔1)	3 to 16	3.5	1.5	1,100	360	35	15	BU4551BF	BU4551BFV

逻辑门

Type	Function	Supply Voltage (V)	Input Voltage (V)		Hysteresis Voltage (V)	Output Voltage I_{OUT}=1μA(V)		Propagation Delay Time (Typ) (ns)	Package/Part No.
			H Level (Min)	L Level (Max)		H Level (Min)	L Level (Max)		SOP14
BU4030B	Quad Exclusive OR Gate	3 to 16	3.5	1.5	—	4.95	0.05	90	BU4030BF

逻辑门(单路)

Type	Function	Supply Voltage (V)	Input Voltage (V)		Hysteresis Voltage (V)	Output Voltage I_{OUT}=1μA(V)		Propagation Delay Time (Typ) (ns)	Package/Part No.
			H Level (Min)	L Level (Max)		H Level (Min)	L Level (Max)		SSOP5
BU4S01	Single NOR Gate	3 to 16	3.5	1.5	—	4.95	0.05	85	BU4S01G2
BU4S11	Single NAND Gate	3 to 16	3.5	1.5	—	4.95	0.05	85	BU4S11G2
BU4SU69	Single Unbuffer Inverter	3 to 16	4.0	1.0	—	4.95	0.05	55	BU4SU69G2
BU4S71	Single OR Gate	3 to 16	3.5	1.5	—	4.95	0.05	90	BU4S71G2
BU4S81	Single AND Gate	3 to 16	3.5	1.5	—	4.95	0.05	90	BU4S81G2
BU4S584	Single Schmitt Trigger	3 to 16	3.5	1.5	0.15 to 0.60	4.95	0.05	125	BU4S584G2

功能逻辑

Type	Function	Supply Voltage (V)	Input Voltage (V)		Output Voltage I_{OUT}=1μA(V)		Propagation Delay Time (Typ) (ns)	Max Clock Frequency (Typ) (MHz)	Set up Time (Typ) (ns)	Hold Time (Typ) (ns)	Package/Part No.	
			H Level (Min)	L Level (Max)	H Level (Min)	L Level (Max)					SOP16	SSOP-B16
BU4094BC	8-Stage Shift/ Store Register (3-State)	3 to 18	3.5	1.5	4.95	0.05	420	2.5	20	10	BU4094BCF	BU4094BCFV

串行输入/并行输出驱动器

串并2输入驱动器

Part No.	Serial Number of Input	Parallel Number of Output	Supply Voltage (V)	Max Output Current (mA)	Max Output Voltage (V)	Output type	Package
BU2098F	2	8	2.7 to 5.5	25	15	Open drain	SOP16
BU2090F		12	2.7 to 5.5	25	25	Open drain	SOP16
BU2090FS		12	2.7 to 5.5	25	25	Open drain	SSOP-A16

串并4输入驱动器

Part No.	Serial Number of Input	Parallel Number of Output	Supply Voltage (V)	Max Output Current (mA)	Max Output Voltage (V)	Output type	Package
BU2050F	4	8	4.5 to 5.5	25	5.5	CMOS	SOP14
BU2092F		12	2.7 to 5.5	25	25	Open drain	SOP18
BU2092FV		12	2.7 to 5.5	25	25	Open drain	SSOP-B20
BU2099FV		12	2.7 to 5.5	25	25	Open drain	SSOP-B20
BU2152FS		24	2.7 to 5.5	25	5.5	CMOS	SSOP-A32

串并2输入驱动器：时钟、数据的2线接口
串并4输入驱动器：时钟、数据、锁存器、芯片启动的4线接口

USB开关IC

DP型(Double Pole)

Part No.	Supply Voltage (V)		USB Switch (ch)	UART Switch (ch)	Circuit Current (μA)	USB Switch ON Resistance (Ω)	USB Switch ON Capacitance (pF)	Package
	USB	UART						
BD11600NUX	2.5 to 5.5	–	1	–	18	3	6	VSON010X3020
BD11603MWX	2.5 to 5.5	–	2	–	18	3	7	USON016X3315
BD11601NUX	2.5 to 5.5	–	1	–	18	2.5	6	VSON008X2020
BD11670GWL	3.8 to 28.0	–	1	–	26	5	6	UCSP50L1C

内置OVP的微型USB开关 USB2.0/MHL™/Audio

Part No.	Supply Voltage (V)			USB/MHL Switch (ch)	MIC Switch (ch)	HP Switch (ch)	VBUS Signal Path (ch)	ID-CBUS Path (ch)	OTG-VBUS Voltage Path (ch)	Stand by Current (μA)	USB/MHL Switch ON Resistance (Ω)	USB/MHL Switch ON Capacitance (pF)	Package
	VBUS	VBAT	VDDIO										
BD91411GW	3.8 to 28.0	2.9 to 4.6	1.7 to 3.0	2	1 (mono)	1	1	1	1	6	5	6	UCSP75M3

◎MHL™是MHL、LCC的商标或注册商标。

IPD(智能功率开关)

高边开关

L字型保护智能高边开关

Part No.	Voltage Range (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1HD045EFJ-C	6.0 to 28.0	41.0	1	21	45	Self-restart	HTSOP-J8	FSs	YES
BV2HC045EFU-C	6.0 to 19.0	41.0	2	21	45	Off-latch	HSSOP-C16	FSs	YES
BV2HD045EFU-C	6.0 to 28.0	41.0		21	45	Self-restart	HSSOP-C16	FSs	YES
BV2HD070EFU-C	6.0 to 28.0	41.0		10	70	Self-restart	HSSOP-C16	FSs	YES

智能高边开关

Part No.	Voltage Range (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BV1HJC45EFJ-C	6.0 to 28.0	45.0	1	5.0	45	Self-restart	HTSOP-J8	FSs	YES
New BV1HLC45EFJ-C	6.0 to 28.0	45.0		2.5	45	Self-restart	HTSOP-J8	FSs	YES
BV1HD090FJ-C	4.5 to 36.0	45.0		2.7	90	Self-restart	SOP-J8	FSs	YES
New BV1HJ180EFJ-C	4.0 to 28.0	45.0		2.0	180	Self-restart	HTSOP-J8	FSs	YES
New BD1HCU50EFJ-C	4.0 to 18.0	44.5		0.8	500	Off-latch	HTSOP-J8	FSs	YES
BD1HC500FVM-C	4.0 to 18.0	44.5		0.8	500	Off-latch	MSOP8	FSs	YES
BD1HC500HFN-C	4.0 to 18.0	44.5		0.8	500	Off-latch	HSON8	FSs	YES
New BD1HDU50EFJ-C	4.0 to 18.0	44.5		0.8	500	Self-restart	HTSOP-J8	FSs	YES
BD1HD500FVM-C	4.0 to 18.0	44.5		0.8	500	Self-restart	MSOP8	FSs	YES
BD1HD500HFN-C	4.0 to 18.0	44.5		0.8	500	Self-restart	HSON8	FSs	YES
New BV2HM050EFV-C	6.0 to 28.0	45.0	2	5	50	Self-restart	HTSSOP-B20	FSs	YES

内置电流检测功能的高边开关

Part No.	Voltage Range (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BV1HB045EFJ-C	6.0 to 28.0	45	1	21	45	Self-restart	HTSOP-J8	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

低边开关

智能低边开关

Part No.	Voltage Range (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1LA025EFJ-C	3.5 to 5.5	42	1	9.0	25	Self-restart	HTSOP-J8	FSs	YES
BV1LB025EFJ-C				35.0	25		HTSOP-J8	FSs	YES
BV1LB028FPJ-C	3.0 to 5.5			30.0	28		TO252-J3	FSs	YES
BV1LB045FPJ-C				18.0	45		TO252-J3	FSs	YES
BV1LB085FJ-C				13.0	85		SOP-J8	FSs	YES
BV1LB150FJ-C				6.5	150		SOP-J8	FSs	YES
BV1LB300FJ-C				1.7	300		SOP-J8	FSs	YES
BM2LB150FJ-C			2	6.5	150		SOP-J8	FSs	YES
BM2LB300FJ-C				1.7	300		SOP-J8	FSs	YES

智能低边开关 带错误标志

Part No.	Voltage Range (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BV1LE040EFJ-C	3.0 to 5.5	40	1	17.5	40	Self-restart	HTSOP-J8	FSs	YES
New BV1LE080EFJ-C				9.0	80		HTSOP-J8	FSs	YES
BV1LC085EFJ-C		42		4.0	85		HTSOP-J8	FSs	YES
BV1LC105FJ-C				3.0	105		SOP-J8	FSs	YES
BV1LC150EFJ-C				3.5	150		HTSOP-J8	FSs	YES
New BV1LE160EFJ-C		40		5.0	160		HTSOP-J8	FSs	YES
New BV1LE250EFJ-C				3.0	250		HTSOP-J8	FSs	YES
BV1LC300EFJ-C		42		1.7	350		HTSOP-J8	FSs	YES
BV1LC300FJ-C				1.7	350		SOP-J8	FSs	YES
BD1LB500EFJ-C	3.5 to 5.5			0.8	350		HTSOP-J8	FSs	YES
BD1LB500FVM-C				0.8	350		MSOP8	FSs	YES
New BM2LE040FJ-C	3.0 to 5.5	40	2	17.5	40		SOP-J8	FSs	YES
New BM2LE080FJ-C				9.0	80		SOP-J8	FSs	YES
BM2LC105FJ-C		42		3.0	105		SOP-J8	FSs	YES
BM2LC120FJ-C				3.0	120		SOP-J8	FSs	YES
New BM2LE160FJ-C		40		5.0	160		SOP-J8	FSs	YES
New BM2LE250FJ-C				3.0	250		SOP-J8	FSs	YES
BM2LC300FJ-C		42		1.7	350		SOP-J8	FSs	YES

智能低边开关 可变转换速率

Part No.	Voltage Range (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1LF080EFJ-C	3.5 to 6.5	42	1	5.0	80	Self-restart	HTSOP-J8	FSs	YES

多通道智能低边开关

Part No.	Voltage Range (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8LB600FS-C	3.0 to 5.5 (Digital)/ 4.0 to 5.5 (Analog)	45	8	1.0	600	Self-restart	SSOP-A24	FSs	YES
BD8LA700EFV-C				0.5	700	Off-latch	HTSSOP-B24	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

数据转换器

D/A转换器	P.24	A/D转换器	P.24

D/A转换器

8bit

标准8bit分辨率
用8bit精度(256级)可控制输出电压。这是更普及的类型，功能也非常丰富。

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Load Current (mA)	Data Transfer Clock Frequency (MHz)	Input type	Data Latch Method	Package
BH2219FVM	2.7 to 5.5	2	0.4	±1.0	±1.5	±1.0	10	CMOS	LD	MSOP8
BH2227FV	2.7 to 5.5	4	0.8	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B14
BH2228FV	2.7 to 5.5	6	0.8	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B14
BH2226FV	2.7 to 5.5	8	1.1	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B16
BH2223FV	2.7 to 5.5	10	1.6	±1.0	±1.5	±1.0	10	CMOS	LD	SSOP-B16
BH2221FV	2.7 to 5.5	12	1.6	±1.0	±1.5	±1.0	10	CMOS	LD	SSOP-B20

10bit

10bit分辨率

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Load Current (mA)	Data Transfer Clock Frequency (MHz)	Input type	Data Latch Method	Package
BU2508FV	4.5 to 5.5	4	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B14
BU2507FV	4.5 to 5.5	6	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B14
BU2506FV	4.5 to 5.5	8	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B20
BU2505FV	4.5 to 5.5	10	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B20
BU22210MUV	2.7 to 5.5	10	1.2	±0.5	±2.0	±1.0	10	TTL	CSB	VQFN016V3030

A/D转换器

高精度12bit A/D转换器(工业设备用)

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Sampling Rate (MSPS)	I/F	Architecture	Package
BU79100G-LA	2.7 to 5.25	1	1.6	−1.0 to +1.0	−1.1 to +1.0	1.0	SPI	SAR	SSOP6

接口

LVDS接口IC	P.25	多输入监控LSI	P.25
LIN收发器	P.26	CAN收发器	P.26
CXPI收发器	P.26	USB Type-C Power Delivery	P.26
燃气热水器用接口IC	P.26		

LVDS接口IC

Part No.	Type	bits (bit)	Color Depth	Input Specification	Output Specification	Clock Frequency (MHz)	Supply Voltage (V)	Operating Temperature (°C)	Package
27bit LVDS发射器 27 : 4串行器									
BU90T81	Serializer	27	8	LVCMOS	LVDS Single Link	20 to 112	1.65 to 1.95	−20 to +85	VBGA048W040
27bit LVDS发射器 27 : 8串行器									
BU90T82	Serializer	27	8	LVCMOS	LVDS Dual Link	10 to 174	1.62 to 1.98/ 1.62 to 3.60	−40 to +85	SBGA072T070A
35bit LVDS发射器35 : 5串行器									
BU8254KVT	Serializer	35	10	LVCMOS	LVDS Single Link	8 to 112	3.0 to 3.6	−40 to +85	TQFP64V
BU8254GUW	Serializer	35	10	LVCMOS	LVDS Single Link	8 to 112	3.0 to 3.6	−20 to +85	VBGA099W060
56bit LVDS发射器 56 : 8串行器									
BU7988KVT	Serializer	56	8	LVCMOS	LVDS Dual Link	8 to 112	3.0 to 3.6	−20 to +85	TQFP100V
35bit LVDS接收器 5 : 35解串器									
BU90R104	Deserializer	35	10	LVDS Single Link	LVCMOS	8 to 112	2.3 to 3.6	−40 to +85	TQFP64V
56bit LVDS接收器 8 : 56解串器									
BU7985KVT	Deserializer	56	8	LVDS Dual Link	LVCMOS	20 to 112	3.0 to 3.6	−20 to +85	TQFP100V
70bit LVDS分配器									
BU90RT102	Serializer/ Deserializer	70	10	LVDS	LVDS	20 to 135	3.0 to 3.6	−20 to +85	HTSSOP-C64
4bit LVDS驱动器									
BU90LV047A	Driver	4	–	LVCMOS	LVDS	250	3.0 to 3.6	−40 to +85	SSOP-B16
4bit LVDS接收器									
BU90LV048	Receiver	4	–	LVDS	LVCMOS	250	3.0 to 3.6	−40 to +85	SSOP-B16
4bit LVDS收发器									
BU90LV049A	Transceiver	4	–	LVCMOS/LVDS	LVCMOS/LVDS	250	3.0 to 3.6	−40 to +85	SSOP-B16

多输入监控LSI

Part No.	Supply Voltage (V)	Switch Input Number	Switch Input Voltage Range (V)	Wetting Current (mA)	Operating Current Intermittent Monitoring 50ms (Max) (μA)	Control I/F	Clock Frequency (MHz)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
22ch型											
BD3378MUV-M	6.0 to 28.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	22	−14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	−40 to +125	VQFN48MCV070	FSs	YES
33ch型											
BD3381EKV-C	6.0 to 28.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	33	−14 to +40	1/3/5/10/15 (Pull up/Pull down)	110	SPI	up to 4.4	−40 to +125	HTQFP64BV	FSs	YES
10ch型											
BD3376EFV-C	8.0 to 26.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	10	−14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	−40 to +125	HTSSOP-B30	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

LIN收发器

LIN收发器									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of LIN pin (V)	Transmission Rate (Max) (kbps)	Supply Current at Sleep Mode (Typ) (μA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41030FJ-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	−40 to +125	−27 to +40	20	3	SOP-J8	FSs	YES
BD41030HFN-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	−40 to +125	−27 to +40	20	3	HSON8	FSs	YES

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CAN收发器

CAN收发器									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of CAN pin (V)	Transmission Rate (Max) (Mbps)	Supply Current at Standby Mode (Typ) (μA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41041FJ-C	ISO 11898-2: 2016	4.75 to 5.25	−40 to +125	−27 to +40	1	10	SOP-J8	FSs	YES
BD41044FJ-C	ISO 11898-2: 2016	4.75 to 5.25	−40 to +125	−27 to +40	5	10	SOP-J8	FSs	YES

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CXPI收发器

CXPI收发器									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of BUS (V)	Transmission Rate (kbps)	Supply Current at Sleep Mode (Typ) (μA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41003FJ-C	JASO_D015_3	7 to 18	−40 to +125	−27 to +40	18.8 to 20.0	3	SOPJ-8	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

USB Type-C Power Delivery

供电用(电力用途：供电，数据传输用途：DFP、内部分流调节、可调OCP、可调OVP、内部Vconn开关)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Initial Supply Capable Voltage/Current (V/A)	Tolerant Voltage at CC Pins (V)	Gate Drivers for Nch FET	After OCP Behavior After OVP Behavior	DP Alternate Mode	Operating Temperature (°C)	Package
BD93F50MWV	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable	28	For Source: 1pair (For Sink: 1pair)	OCP: Selectable OVP: Selectable	DP_SINK with Ext-MCU	−30 to +85	UQFN040V5050

供电受电用(电力用途：供电/受电/DRP，数据传输用途：DFP/UFP/DRD)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V)		CC terminal voltage (V)	Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (°C)	Package
				Dead Battery	Non Dead Battery					
New BD93E30GWL	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable (Sink) / 5V (Source)		6.0	For Sink: 1pair For Source: 1pair	DP_SOURCE	−30 to +85	UCSP50L2C
New BD93E70GWL				5V (Sink) / 5V to 20V Selectable (Source)				DP_SINK		UCSP50L2C

受电用(电力用途：受电，数据传输用途：UFP)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V) Without Ext-MCU	Start of Automatic Power Receiving Without Ext-MCU	CC terminal voltage (V)	Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (°C)	Package
New BD93E11GWL	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable	Selectable	6.0	For Sink: 1pair For Source: 1pair	—	−30 to +85	UCSP50L2C
BD93F10MWV						28				UQFN040V5050
BD91N01NUX	4.0 to 5.5		R1.3/—	Type-C 5V	✓	28	For Sink: 1path			VSON010X3020

燃气热水器用接口IC

燃气热水器用接口IC									
Part No.	Supply Voltage (V)	Circuit Current (mA)	Oscillation Frequency (MHz)	Detection Frequency (kHz)	Pseudo-sine Wave Output Circuit	External Analog Signal Detection Circuit	Analog Switch (ch)	Operating Temperature (°C)	Package
New BD88030FV	4.5 to 5.5	2.5	4	250	✓	✓	2	−20 to +80	SSOP-B16

电源管理

线性稳压器	P.28	开关稳压器	P.43
复合电源IC(PMIC)	P.48	非绝缘型　AC-DC转换器	P.50
绝缘/非绝缘型　AC-DC转换器	P.51	绝缘型　AC-DC转换器IC	P.52
栅极驱动器	P.54	电源管理开关	P.55
无线供电	P.57	电池管理	P.58
电压检测器(复位IC)	P.59		

线性稳压器

标准稳压器(三引脚稳压器)	P.28	低饱和稳压器(LDO)	P.28
超低饱和稳压器(LDO)	P.40	多通道输出 低饱和稳压器(LDO)	P.41
带看门狗计时器的低饱和稳压器(LDO)	P.41	带电压检测器的低饱和稳压器(LDO)	P.42
电压跟踪器	P.42	高音质音响用电源	P.42
DDR SDRAM用线性稳压器	P.42		

单通道输出稳压器-产品表

Output Current / Max. Rating Input Voltage	up to 0.1A	0.15A	0.2A	0.3A	0.5A	0.7A	1.0A	1.5A	2.0A	3.0A	4.0A
42 to 50V	BD42500G-C*2/3 BD42540FJ-C*2/3 ▶P.42 BD7xxL05G-C ▶P.29	BD9xxN1*2 BD9xxN1W*2 ▶P.29	BD7xxU2EFJ-C*2 BD4xxU2EFJ-C*2 BD7xxL2FP-C*2 BD7xxL2FP3-C*2 BD4xxU2EFJ-C*2 BD4xxM2FP3-C*2 ▶P.28 BD4xxM2WFP3-C*2 BD4xxU2WEFJ-C*2 ▶P.29 BD4269FJ-C*2/3 BD42530UEFJ-C*2 BD42530FP2-C*2 BD42530FPJ-C*2 ▶P.42 BD820F5UEFJ-C*2 ▶P.41	BD4269UEFJ-C*2 ▶P.42	BD357xYFP-M BD7xxL5FP-C*2 BD4xxM5*1/2 ▶P.28 BDxxxM5W*1/2 BD00EA5W*1/2 ▶P.29 BD4271EFJ-C*2/3 BD4271HFP-C*2/3 BD4271FP2-C*2/3 ▶P.41 BD42754FPJ-C*2/3 BD42754FP2-C*2/3 ▶P.42	BD800M7WFP2-C*2 ▶P.29				
30 to 36V	BDxxFA1FP3 BD50FA1MG-M*2 BD00FA1WEFJ ▶P.31			BD3650FP-M*2 ▶P.29 BA3662CP-V5 ▶P.31	BA178Mxx*1 ▶P.28 BD3021HFP*2/3 BD3020HFP*2/3 ▶P.41 BD3925FP-C*2 BD3925HFP-C*2 ▶P.42		BA178xx*1 ▶P.28 BAxxxCC0*1 BDxxFC0FP BDxxC0A*1/2 BDxxFC0W*1 BAxxCC0W*1 ▶P.30 BDxxC0AW*1/2 ▶P.31		BAxxDD0T BAxxDD0W*1 ▶P.29 BDxxFD0W BD00FDAWHFP ▶P.30		
18V							BAxxBC0*1 ▶P.31 BAxxBC0W*1 ▶P.32	BAxxJC5T BA00JC5WT ▶P.31			
15V				BDxxGA3*1/2/4 ▶P.33	BDxxGA5*2/4 ▶P.32, 33		BA1117FP ▶P.28 BDxxGC0*2/4 ▶P.32				
10V				BDxxHA3*2/4 ▶P.35	BDxxHA5*2/4 ▶P.34, 35		BDxxHC0*2/4 ▶P.34	BDxxHC5*2/4 ▶P.34			
6 to 7V		BHxxNB1WHFV BHxxRB1WGUT BHxxPB1WHFV ▶P.40	BUxxTD2WNVX*1 BUxxTD3WG*1 BUxxTA2W*1 ▶P.38 BUxxSD2MG-M*2 BUxxJA2MNVX-C*2 BUxxJA2VG-C*2 BUxxJA2DG-C*2 BUxxSA4WGWL ▶P.39	BHxxM0AWHFV ▶P.37 BUxxJA3DG-C*2 ▶P.38	BDxxKA5*1 BDxxIA5*2 ▶P.36 BUxxSD5WG BUxxSA5WGWZ ▶P.37		BDxxIC0*1/2/4 ▶P.35, 36				
less than 6V	BD7602GUL (1ch) ▶P.41	BD7062GUL (2ch) ▶P.41	BD820F5UEFJ-C BU66xxNUX ▶P.41		BD3550HFN BD3540NUV ▶P.40 BD37201NUX ▶P.42		BD00JC0MNUX-M BD3551HFN BD3541NUV ▶P.40		BD3552HFN ▶P.40	BD3508MUV ▶P.40	BD3509MUV ▶P.40

*1 封装系列　*2 车载等级　*3 电压检测等复合稳压器　*4 备有工业设备级产品

线性稳压器

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

标准稳压器(三引脚稳压器)

35V耐压 1A输出 三引脚稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Circuit Current (mA)	Thermal Shutdown Circuit	Area of Safety Operation Circuit	Over Current Protection Circuit	Package/Part No.	
									TO220CP-3	TO252-3
BA17805 (BA7805)	7.5 to 25.0	5	±4	1.0	4.5	✓	✓	✓	BA17805CP	BA17805FP
BA17806 (BA7806)	8.5 to 21.0	6							BA17806CP	BA17806FP
BA17807 (BA7807)	9.5 to 22.0	7							BA17807CP	BA17807FP
BA17808 (BA7808)	10.5 to 23.0	8							BA17808CP	BA17808FP
BA17809 (BA7809)	11.5 to 26.0	9							BA17809CP	BA17809FP
BA17810 (BA7810)	12.5 to 25.0	10							BA17810CP	BA17810FP
BA17812 (BA7812)	14.5 to 27.0	12							BA17812CP	BA17812FP
BA17815 (BA7815)	17.5 to 30.0	15							BA17815CP	BA17815FP
BA17818 (BA7818)	21.0 to 33.0	18							BA17818CP	BA17818FP
BA17820 (BA7820)	23.0 to 33.0	20							BA17820CP	BA17820FP
BA17824 (BA7824)	27.0 to 33.0	24							BA17824CP	BA17824FP

35V耐压 500mA输出 三引脚稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Circuit Current (mA)	Thermal Shutdown Circuit	Area of Safety Operation Circuit	Over Current Protection Circuit	Package/Part No.	
									TO220CP-3	TO252-3
BA178M05 (BA78M05)	7.5 to 25.0	5	±4	0.5	4.5	✓	✓	✓	BA178M05CP	BA178M05FP
BA178M06 (BA78M06)	8.5 to 21.0	6							BA178M06CP	BA178M06FP
BA178M07 (BA78M07)	9.5 to 22.0	7							BA178M07CP	BA178M07FP
BA178M08 (BA78M08)	10.5 to 23.0	8							BA178M08CP	BA178M08FP
BA178M09 (BA78M09)	11.5 to 26.0	9							BA178M09CP	BA178M09FP
BA178M10 (BA78M10)	12.5 to 25.0	10							BA178M10CP	BA178M10FP
BA178M12 (BA78M12)	15.0 to 27.0	12							BA178M12CP	BA178M12FP
BA178M15 (BA78M15)	17.5 to 30.0	15							BA178M15CP	BA178M15FP
BA178M18 (BA78M18)	21.0 to 33.0	18							BA178M18CP	BA178M18FP
BA178M20 (BA78M20)	23.0 to 33.0	20							BA178M20CP	BA178M20FP
BA178M24 (BA78M24)	27.0 to 33.0	24							BA178M24CP	BA178M24FP

15V耐压 1A输出 可变输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Adjustment Pin Current (μA)	Reference Voltage (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BA1117FP	10	Variable	±1	1.0	60	1.2 (I_O=1A)	75 (f=120Hz, V_I-V_O=3V, Vripple=1V_{PP})	10	Over-Current/ Temperature	TO252-3

低饱和稳压器(LDO)

50V耐压 500mA 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3570YFP-M	4.5 to 36.0	3.3	±2 (T_a=−40 to +125°C)	0.5	–	30	T_a=−40 to +125	–	Over-Current/ Temperature	TO252-3	FSs	YES
BD3570YHFP-M										HRP5	FSs	YES
BD3571YFP-M	5.5 to 36.0	5.0			0.25 (I_O=200mA)					TO252-3	FSs	YES
BD3571YHFP-M										HRP5	FSs	YES
BD3572YFP-M	4.5 to 36.0	Variable 2.8 to 12.0								TO252-5	FSs	YES
BD3572YHFP-M										HRP5	FSs	YES
BD3573YFP-M		3.3			–			✓		TO252-5	FSs	YES
BD3573YHFP-M										HRP5	FSs	YES
BD3574YFP-M	5.5 to 36.0	5.0			0.25 (I_O=200mA)					TO252-5	FSs	YES
BD3574YHFP-M										HRP5	FSs	YES
BD3575YFP-M	4.5 to 36.0	Variable 2.8 to 12.0								TO252-5	FSs	YES
BD3575YHFP-M										HRP5	FSs	YES

50V耐压 超低静态电流 500mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD733L5FP-C	4.17 to 45.0	3.3	±2 (T_a=−40 to +125°C)	0.5	0.4 (I_O=200mA)	6	T_a=−40 to +125	–	Over-Current/ Temperature	TO252-3	FSs	YES
BD750L5FP-C	5.6 to 45.0	5.0			0.25 (I_O=200mA)					TO252-3	FSs	YES

50V耐压 超低静态电流 200mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD733U2EFJ-C	4.37 to 45.0	3.3	±2 (T_a=−40 to +125°C)	0.2	0.6 (I_O=200mA)	6	T_a=−40 to +125	–	Over-Current/ Temperature	HTSOP-J8	FSs	YES
BD733L2FP-C										TO252-3	FSs	YES
BD733L2FP3-C										SOT223-4	FSs	YES
New BD750U2EFJ-C	5.8 to 45.0	5.0			0.4 (I_O=200mA)					HTSOP-J8	FSs	YES
BD750L2FP-C										TO252-3	FSs	YES
BD750L2FP3-C										SOT223-4	FSs	YES

45V耐压 低静态电流 500mA LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No.		ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										TO252-3	TO263-3		
BD433M5	4.0 to 42.0	3.3	±2 (T_j=−40 to +150°C)	0.5	0.25 (I_O=300mA)	38	T_j=−40 to +150	–	Over-Current/ Temperature	BD433M5FP-C	BD433M5FP2-C	FSs	YES
BD450M5	5.5 to 42.0	5.0			0.2 (I_O=300mA)					BD450M5FP-C	BD450M5FP2-C	FSs	YES

45V耐压 低静态电流 200mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD433U2EFJ-C	3.9 to 42.0	3.3	±2 (T_j=−40 to +150°C)	0.2	0.2 (I_O=100mA)	40	T_j=−40 to +150	–	Over-Current/ Temperature	HTSOP-J8	FSs	YES
BD433M2FP3-C										SOT223-4	FSs	YES
New BD450U2EFJ-C	5.5 to 42.0	5.0			0.16 (I_O=100mA)					HTSOP-J8	FSs	YES
BD450M2FP3-C										SOT223-4	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

45V耐压 低静态电流 150mA 可变输出/固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No. HTSOP-J8	Package/Part No. SSOP5	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD900N1	3 to 42	Variable	±2.0	0.15	0.5 (I_O=100mA)	28	T_j=−40 to +150	—	Over-Current/ Temperature	BD900N1EFJ-C	BD900N1G-C	FSs	YES
New BD933N1		3.3								BD933N1EFJ-C	BD933N1G-C	FSs	YES
New BD950N1		5.0								BD950N1EFJ-C	BD950N1G-C	FSs	YES

45V耐压 低静态电流 50mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD725L05G-C	3.5 to 42.0	2.5	±2	0.05	—	6	−40 to +125	—	Over-Current/ Temperature	SSOP5	FSs	YES
New BD730L05G-C	3.5 to 42.0	3.0			0.3 (I_O=50mA)					SSOP5	FSs	YES
New BD733L05G-C	3.8 to 42.0	3.3								SSOP5	FSs	YES
New BD750L05G-C	5.6 to 42.0	5.0			0.35 (I_O=50mA)					SSOP5	FSs	YES

45V耐压 低静态电流 700mA 可变输出 LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD800M7WFP2-C	3.0 to 42.0	Variable 1.2 to 16.0	±2.6 (T_j=−40 to +150°C)	0.7	0.6 (I_O=700mA)	17	T_j=−40 to +150	✓	Over-Current/ Temperature	TO263-5	FSs	YES

45V耐压 低静态电流 500mA LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No. TO252-5	TO252-J5	TO263-5	HRP5	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD433M5W	4.0 to 42.0	3.3	±2 (T_j=−40 to +150°C)	0.5	0.25 (I_O=300mA)	38	T_j=−40 to +150	✓	Over-Current/ Temperature	—	BD433M5WFPJ-C	BD433M5WFP2-C	—	FSs	YES
BD450M5W	5.5 to 42.0	5.0			0.2 (I_O=300mA)					—	BD450M5WFPJ-C	BD450M5WFP2-C	—	FSs	YES
BD800M5W	3.0 to 42.0	Variable 1.2 to 16.0	±2.0		0.5 (I_O=500mA)	17	T_j=−40 to +150			—	BD800M5WFPJ-C	—	BD800M5WHFP-C	FSs	YES
			±2.6							—	—	BD800M5WFP2-C	—	FSs	
BD00EA5W			±1 (T_j=25°C)		0.45 (I_O=500mA)		T_j=−40 to +105			BD00EA5WFP	—	—	BD00EA5WHFP	—	—
			±1.5 (T_j=25°C)							—	—	BD00EA5WFP2	—	—	—

45V耐压 低静态电流 200mA LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD433U2WEFJ-C	3.9 to 42.0	3.3	±2 (T_j=−40 to +150°C)	0.2	0.2 (I_O=100mA)	40	T_j=−40 to +150	✓	Over-Current/ Temperature	HTSOP-J8	FSs	YES
BD433M2WFP3-C										SOT223-4	FSs	YES
New BD450U2WEFJ-C	5.5 to 42.0	5.0			0.16 (I_O=100mA)					HTSOP-J8	FSs	YES
BD450M2WFP3-C										SOT223-4	FSs	YES

45V耐压 低静态电流 150mA 可变输出/固定输出 LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No. HTSOP-J8	Package/Part No. SSOP5	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD900N1W	3 to 42	Variable	±2.0	0.15	0.5 (I_O=100mA)	28	T_j=−40 to +150	✓	Over-Current/ Temperature	BD900N1WEFJ-C	BD900N1WG-C	FSs	YES
New BD933N1W		3.3								BD933N1WEFJ-C	BD933N1WG-C	FSs	YES
New BD950N1W		5.0								BD950N1WEFJ-C	BD950N1WG-C	FSs	YES

36V耐压 300mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (mA)	Operating Temperature (°C)	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3650FP-M	5.6 to 30.0	5.0	±2 (T_a=−40 to +125°C)	0.3	0.2 (I_O=200mA)	0.5	−40 to +125	Over-Current/ Temperature	TO252-3	FSs	YES

35V耐压 2A LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BA15DD0T	3 to 25	1.5	±1	2.0	0.9	0.45 (I_O=2A)	55	50 (I_O=0 to 2A)	Over-Voltage/ OverCurrent/ Temperature	TO220FP-3
BA18DD0T		1.8								TO220FP-3
BA25DD0T		2.5								TO220FP-3
BA30DD0T		3.0								TO220FP-3
BA33DD0T		3.3								TO220FP-3
BA50DD0T		5.0								TO220FP-3
BA90DD0T		9.0								TO220FP-3
BAJ2DD0T		12.0								TO220FP-3
BAJ6DD0T		16.0								TO220FP-3

35V耐压 2A 可变输出/固定输出 LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No. TO220FP-5	Package/Part No. HRP5
BA00DD0W	3 to 25	Variable 1.5 to 16.0	±1	2.0	0.9	0.45 (I_O=2A)	55	50 (I_O=0 to 2A)	Over-Voltage/ Over-Current/ Temperature	BA00DD0WCP-V5 (TO220CP-V5)	BA00DD0WHFP
BA15DD0W		1.5								BA15DD0WT	BA15DD0WHFP
BA18DD0W		1.8								BA18DD0WT	BA18DD0WHFP
BA25DD0W		2.5								—	BA25DD0WHFP
BA30DD0W		3.0								BA30DD0WT	BA30DD0WHFP
BA33DD0W		3.3								BA33DD0WT	BA33DD0WHFP
BA50DD0W		5.0								BA50DD0WT	BA50DD0WHFP
BA90DD0W		9.0								BA90DD0WT	BA90DD0WHFP
BAJ2DD0W		12.0								BAJ2DD0WT	BAJ2DD0WHFP
BAJ6DD0W		16.0								BAJ6DD0WT	BAJ6DD0WHFP

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

35V耐压 2A 可变输出/固定输出 LDO稳压器 带关断开关(低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No.	
										HRP5	TO263-5
BD00FD0W	4 to 32	Variable 1.5 to 16.0	±1	2.0	0.5	0.4 (I_O=1A)	55	V_O*2×0.7% (I_O=5mA to 1A)	Over-Current/ Temperature	BD00FD0WHFP	BD00FD0WFP2
BD15FD0W		1.5	±1.5			—		V_O*2×2.0% (I_O=5mA to 1A)		BD15FD0WHFP	BD15FD0WFP2
BD18FD0W		1.8								BD18FD0WHFP	BD18FD0WFP2
BD25FD0W		2.5								BD25FD0WHFP	BD25FD0WFP2
BD30FD0W		3.0	±1							BD30FD0WHFP	BD30FD0WFP2
BD33FD0W		3.3						V_O*2×0.7% (I_O=5mA to 1A)		BD33FD0WHFP	BD33FD0WFP2
BD50FD0W	V_O+1 to 32	5.0				0.4 (I_O=1A)	50			BD50FD0WHFP	BD50FD0WFP2
BD80FD0W		8.0								BD80FD0WHFP	BD80FD0WFP2
BD90FD0W		9.0								BD90FD0WHFP	BD90FD0WFP2
BDJ2FD0W		12.0								BDJ2FD0WHFP	BDJ2FD0WFP2
BDJ5FD0W		15.0								BDJ5FD0WHFP	BDJ5FD0WFP2
BDJ6FD0W		16.0								BDJ6FD0WHFP	BDJ6FD0WFP2

35V耐压 2A 可变输出 LDO稳压器 带关断开关(大范围电压设定适用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
New BD00FDAWHFP	4 to 32	Variable 1.5 to 30.0	±1 (T_a=25°C)	2.0	0.5	0.4 (I_O=1A)	55	V_O*2×0.7% (I_O=5mA to 1A)	Over-Current/ Temperature	HRP5

35V耐压 1A LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No.	
										TO220FP-3	TO252-3
BA03CC0	4 to 25	3.0	±2	1.0	2.5	0.30 (I_O=0.5A)	55	50 (I_O=5mA to 1A)	Over-Voltage/ Over-Current/ Temperature	BA03CC0T	BA03CC0FP
BA033CC0		3.3								BA033CC0T	BA033CC0FP
BA05CC0		5.0								BA05CC0T	BA05CC0FP
BA06CC0		6.0								—	BA06CC0FP
BA07CC0		7.0								BA07CC0T	BA07CC0FP
BA08CC0		8.0								BA08CC0T	BA08CC0FP
BA09CC0		9.0								BA09CC0T	BA09CC0FP
BAJ0CC0		10.0								BAJ0CC0T	BAJ0CC0FP
BAJ2CC0		12.0								BAJ2CC0T	BAJ2CC0FP
BAJ5CC0		15.0								BAJ5CC0T	BAJ5CC0FP

35V耐压 1A LDO稳压器(低输出容量适用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package
BD33FC0FP	4.3 to 26.5	3.3	±1	1.0	0.6	—	55	V_O*2×0.01 (I_O=5mA to 1A)	Over-Current/ Temperature	TO252-3
BD50FC0FP	6.0 to 26.5	5.0				0.30 (I_O=0.5A)				TO252-3

车载用35V耐压 1A LDO稳压器(低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.			ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										TO252-3	HRP5	TO263-3		
BD33C0A	4.3 to 26.5	3.3	±3 (T_a=−40 to +125°C)	1.0	0.5	—	55	V_O*2×0.01 (I_O=5mA to 1A)	Over-Current/ Temperature	BD33C0AFP-C	BD33C0AHFP-C	BD33C0AFP2-C	FSs	YES
BD50C0A	6.0 to 26.5	5.0				0.3 (I_O=500mA)				BD50C0AFP-C	BD50C0AHFP-C	BD50C0AFP2-C	FSs	YES
BD80C0A	9.0 to 26.5	8.0					50			BD80C0AFP-C	BD80C0AHFP-C	BD80C0AFP2-C	FSs	YES
BD90C0A	10.0 to 26.5	9.0								BD90C0AFP-C	BD90C0AHFP-C	BD90C0AFP2-C	FSs	YES

35V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关(低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.	
										TO252-5	HTSOP-J8
BD00FC0W	4.0 to 26.5	Variable 1.0 to 15.0	±1	1.0	0.5	0.3 (I_O=500mA)	55	V_O*2×0.01 (I_O=5mA to 1A)	Over-Current/ Temperature	BD00FC0WFP	BD00FC0WEFJ
BD30FC0W		3.0				—				BD30FC0WFP	BD30FC0WEFJ
BD33FC0W	4.3 to 26.5	3.3								BD33FC0WFP	BD33FC0WEFJ
BD50FC0W	6.0 to 26.5	5.0				0.3 (I_O=500mA)	50			BD50FC0WFP	BD50FC0WEFJ
BD60FC0W	7.0 to 26.5	6.0								BD60FC0WFP	BD60FC0WEFJ
BD70FC0W	8.0 to 26.5	7.0								BD70FC0WFP	BD70FC0WEFJ
BD80FC0W	9.0 to 26.5	8.0								BD80FC0WFP	BD80FC0WEFJ
BD90FC0W	10.0 to 26.5	9.0								BD90FC0WFP	BD90FC0WEFJ
BDJ0FC0W	11.0 to 26.5	10.0								BDJ0FC0WFP	BDJ0FC0WEFJ
BDJ2FC0W	13.0 to 26.5	12.0								BDJ2FC0WFP	BDJ2FC0WEFJ
BDJ5FC0W	16.0 to 26.5	15.0								BDJ5FC0WFP	BDJ5FC0WEFJ

35V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No.	
										TO220FP-5	TO252-5
BA00CC0W	4 to 25	Variable 3.0 to 15.0	±2	1.0	2.5	0.3 (I_O=0.5A)	55	50 (I_O=5mA to 1A)	Over-Voltage/ Over-Current/ Temperature	BA00CC0WT/ BA00CC0WCP-V5 (TO220CP-V5)	BA00CC0WFP
BA03CC0W		3.0								BA03CC0WT	—
BA033CC0W		3.3								BA033CC0WT	BA033CC0WFP
BA05CC0W		5.0								BA05CC0WT	BA05CC0WFP
BA06CC0W		6.0								—	BA06CC0WFP
BA07CC0W		7.0								BA07CC0WT	BA07CC0WFP
BA08CC0W		8.0								BA08CC0WT	BA08CC0WFP
BA09CC0W		9.0								BA09CC0WT	BA09CC0WFP
BAJ0CC0W		10.0								BAJ0CC0WT	—
BAJ2CC0W		12.0								BAJ2CC0WT	BAJ2CC0WFP

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。
*2 V_O是输出电压，单位：V

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

35V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关(大范围温度且低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.	
										TO252-5	TO220CP-V5
BD00C0AW	4.0 to 26.5	Variable 3.0 to 15.0	±1	1.0	0.5	0.3 (I_O=500mA)	55	V_O*2×0.01 (I_O=5mA to 1A)	Over-Current/ Temperature	BD00C0AWFP	BD00C0AWCP-V5
BD33C0AW	4.3 to 26.5	3.3				—				BD33C0AWFP	—
BD50C0AW	6.0 to 26.5	5.0				0.3 (I_O=500mA)				BD50C0AWFP	—

车载用35V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关(低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.			ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										TO252-5	HRP5	TO263-5		
BD00C0AW	4.0 to 26.5	Variable 1.0 to 15.0	±3 (T_a=−40 to +125°C)	1.0	0.5	0.3 (I_O=500mA)	55	V_O*2×0.01 (I_O=5mA to 1A)	Over-Current/ Temperature	BD00C0AWFP-C	BD00C0AWHFP-C	BD00C0AWFP2-C	FSs	YES
BD33C0AW	4.3 to 26.5	3.3				—				BD33C0AWFP-C	BD33C0AWHFP-C	BD33C0AWFP2-C	FSs	YES
BD50C0AW	6.0 to 26.5	5.0				0.3 (I_O=500mA)				BD50C0AWFP-C	BD50C0AWHFP-C	BD50C0AWFP2-C	FSs	YES
BD80C0AW	9.0 to 26.5	8.0					50			BD80C0AWFP-C	BD80C0AWHFP-C	BD80C0AWFP2-C	FSs	YES
BD90C0AW	10.0 to 26.5	9.0								BD90C0AWFP-C	BD90C0AWHFP-C	BD90C0AWFP2-C	FSs	YES

35V耐压 300mA 输出可变LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation	Protection Circuit	Package
BA3662CP-V5	4 to 25	Variable 3.0 to 15.0	±2	0.3	2.5	0.3 (I_O=0.2A)	55	40mV (I_O=5to 200mA)	Over-Voltage/ Over-Current/ Temperature	TO220CP-V5

小型 30V耐压 100mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Load Regulation (%)	Protection Circuit	Input Capacitor (μF)	Output Capacitor (μF)	Package
BD33FA1FP3	V_O+3 to 25	3.3	±1	0.1	0.3	1 (I_O=100mA)	±1.5	Over-Current/ Temperature	1.0	1.0	SOT89-3K
BD50FA1FP3		5.0									SOT89-3K
BD54FA1FP3		5.4									SOT89-3K
BDJ2FA1FP3		12.0			0.4						SOT89-3K

车载用 30V耐压 100mA LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Load Regulation (%)	Protection Circuit	Input Capacitor (μF)	Output Capacitor (μF)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD50FA1MG-M	V_O+3 to 25	5	±1	0.1	0.5	2 (I_O=100mA)	±1.5	Over-Current/ Temperature	1.0	1.0	SSOP5	FSs	YES

30V耐压 100mA 输出可变LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Load Regulation (%)	Protection Circuit	Input Capacitor (μF)	Output Capacitor (μF)	Package
BD00FA1WEFJ	V_O+3 to 25	Variable 3.0 to 12.0	±1	0.1	0.3	2 (I_O=100mA)	±1.5	Over-Current/ Temperature	2.2	2.2	HTSOP-J8

18V耐压 1.5A LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Protection Circuit	Package
BA15JC5T	3 to 16	1.5	±1	1.5	0.5	0.3 (I_O=500mA)	55	5 (I_O=5mA to 1.5A)	0.33	22.0	Over-Current/ Temperature	TO220FP-3
BA18JC5T		1.8										TO220FP-3
BA25JC5T		2.5										TO220FP-3
BA30JC5T		3.0										TO220FP-3
BA33JC5T		3.3										TO220FP-3
BA50JC5T		5.0										TO220FP-3
BA60JC5T		6.0										TO220FP-3
BA80JC5T		8.0										TO220FP-3
BA90JC5T		9.0										TO220FP-3

18V耐压 1.5A 可变输出 LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BA00JC5WT	3 to 16	Variable 1.5 to 12.0	±1	1.5	0.5	0.3 (I_O=500mA)	55	5 (I_O=5mA to 1.5A)	0.33	22.0	✓	Over-Current/ Temperature	TO220FP-5

18V耐压 1A LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Protection Circuit	Package/Part No.	
												TO252-3	TO220FP-3
BA15BC0	3 to 16	1.5	±2	1.0	0.5	0.3 (I_O=200mA)	55	35 (I_O=0 to 1A)	0.33	22.0	Over-Current/ Temperature	BA15BC0FP	BA15BC0T
BA18BC0		1.8										BA18BC0FP	BA18BC0T
BA25BC0		2.5										BA25BC0FP	BA25BC0T
BA30BC0		3.0										BA30BC0FP	BA30BC0T
BA33BC0		3.3										BA33BC0FP	BA33BC0T
BA50BC0		5.0										BA50BC0FP	BA50BC0T
BA60BC0		6.0										BA60BC0FP	BA60BC0T
BA70BC0		7.0			0.6							BA70BC0FP	BA70BC0T
BA80BC0		8.0										BA80BC0FP	BA80BC0T
BA90BC0		9.0										BA90BC0FP	BA90BC0T
BAJ0BC0		10.0										BAJ0BC0FP	BAJ0BC0T

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。
*2 V_O是输出电压，单位：V

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

18V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Pprecision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.	
													TO252-5	TO220FP-5
BA00BC0W	3 to 16	Variable 1.5 to 12.0	±2	1.0	0.5 (V_O≤6.0)	0.3 (I_O=200mA)	55	35 (I_O=0 to 1A)	0.33	22.0	✓	Over-Current/ Temperature	BA00BC0WFP/ BA00BC0WCP-V5 (TO220CP-V5)	BA00BC0WT
BA15BC0W		1.5			0.5								BA15BC0WFP	BA15BC0WT
BA18BC0W		1.8											BA18BC0WFP	BA18BC0WT
BA25BC0W		2.5											BA25BC0WFP	BA25BC0WT
BA30BC0W		3.0											BA30BC0WFP	BA30BC0WT
BA33BC0W		3.3											BA33BC0WFP	BA33BC0WT
BA50BC0W		5.0											BA50BC0WFP	BA50BC0WT
BA60BC0W		6.0											BA60BC0WFP	BA60BC0WT
BA70BC0W		7.0			0.6								BA70BC0WFP	BA70BC0WT
BA80BC0W		8.0											BA80BC0WFP	BA80BC0WT
BA90BC0W		9.0											BA90BC0WFP	BA90BC0WT
BAJ0BC0W		10.0											BAJ0BC0WFP	BAJ0BC0WT

15V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关

Part No. / Consumer/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00GC0WEFJ/BD00GC0MEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15GC0WEFJ/BD15GC0MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18GC0WEFJ/BD18GC0MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25GC0WEFJ/BD25GC0MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30GC0WEFJ/BD30GC0MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33GC0WEFJ/BD33GC0MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50GC0WEFJ/BD50GC0MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60GC0WEFJ/BD60GC0MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70GC0WEFJ/BD70GC0MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES
BD80GC0WEFJ/BD80GC0MEFJ-M		8.0											HTSOP-J8	—/FSs	—/YES
BD90GC0WEFJ/BD90GC0MEFJ-M		9.0											HTSOP-J8	—/FSs	—/YES
BDJ0GC0WEFJ/BDJ0GC0MEFJ-M		10.0											HTSOP-J8	—/FSs	—/YES
BDJ2GC0WEFJ/BDJ2GC0MEFJ-M		12.0											HTSOP-J8	—/FSs	—/YES

15V耐压 1A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00GC0MEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15GC0MEFJ-LB		1.5											HTSOP-J8
BD18GC0MEFJ-LB		1.8											HTSOP-J8
BD25GC0MEFJ-LB		2.5											HTSOP-J8
BD30GC0MEFJ-LB		3.0											HTSOP-J8
BD33GC0MEFJ-LB		3.3											HTSOP-J8
BD50GC0MEFJ-LB		5.0											HTSOP-J8
BD60GC0MEFJ-LB		6.0											HTSOP-J8
BD70GC0MEFJ-LB		7.0											HTSOP-J8
BD80GC0MEFJ-LB		8.0											HTSOP-J8
BD90GC0MEFJ-LB		9.0											HTSOP-J8
BDJ0GC0MEFJ-LB		10.0											HTSOP-J8
BDJ2GC0MEFJ-LB		12.0											HTSOP-J8

15V耐压 500mA 可变输出/固定输出 LDO稳压器 带关断开关

Part No. / Consumer/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00GA5WEFJ/BD00GA5MEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	0.5	0.6	0.6 (I_O=500mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15GA5WEFJ/BD15GA5MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18GA5WEFJ/BD18GA5MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25GA5WEFJ/BD25GA5MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30GA5WEFJ/BD30GA5MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33GA5WEFJ/BD33GA5MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50GA5WEFJ/BD50GA5MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60GA5WEFJ/BD60GA5MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70GA5WEFJ/BD70GA5MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES
BD80GA5WEFJ/BD80GA5MEFJ-M		8.0											HTSOP-J8	—/FSs	—/YES
BD90GA5WEFJ/BD90GA5MEFJ-M		9.0											HTSOP-J8	—/FSs	—/YES
BDJ0GA5WEFJ/BDJ0GA5MEFJ-M		10.0											HTSOP-J8	—/FSs	—/YES
BDJ2GA5WEFJ/BDJ2GA5MEFJ-M		12.0											HTSOP-J8	—/FSs	—/YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

15V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00GA5MEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.5	0.6	0.6 (I_O=500mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15GA5MEFJ-LB		1.5											HTSOP-J8
BD18GA5MEFJ-LB		1.8											HTSOP-J8
BD25GA5MEFJ-LB		2.5											HTSOP-J8
BD30GA5MEFJ-LB		3.0											HTSOP-J8
BD33GA5MEFJ-LB		3.3											HTSOP-J8
BD50GA5MEFJ-LB		5.0											HTSOP-J8
BD60GA5MEFJ-LB		6.0											HTSOP-J8
BD70GA5MEFJ-LB		7.0											HTSOP-J8
BD80GA5MEFJ-LB		8.0											HTSOP-J8
BD90GA5MEFJ-LB		9.0											HTSOP-J8
BDJ0GA5MEFJ-LB		10.0											HTSOP-J8
BDJ2GA5MEFJ-LB		12.0											HTSOP-J8

15V耐压 300mA 可变输出/固定输出 LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.	
													HTSOP-J8	VSON008X2030
BD00GA3W	4.5 to 14.0	Variable 1.5 to 13.0	±1	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	BD00GA3WEFJ	BD00GA3WNUX
BD15GA3W		1.5											BD15GA3WEFJ	☆BD15GA3WNUX
BD18GA3W		1.8											BD18GA3WEFJ	☆BD18GA3WNUX
BD25GA3W		2.5											BD25GA3WEFJ	☆BD25GA3WNUX
BD30GA3W		3.0											BD30GA3WEFJ	BD30GA3WNUX
BD33GA3W		3.3											BD33GA3WEFJ	☆BD33GA3WNUX
BD50GA3W		5.0											BD50GA3WEFJ	BD50GA3WNUX
BD60GA3W		6.0											BD60GA3WEFJ	BD60GA3WNUX
BD70GA3W		7.0											BD70GA3WEFJ	☆BD70GA3WNUX
BD80GA3W		8.0											BD80GA3WEFJ	☆BD80GA3WNUX
BD90GA3W		9.0											BD90GA3WEFJ	☆BD90GA3WNUX
BDJ0GA3W		10.0											BDJ0GA3WEFJ	☆BDJ0GA3WNUX
BDJ2GA3W		12.0											BDJ2GA3WEFJ	☆BDJ2GA3WNUX

车载用 15V耐压 300mA 可变输出/固定输出 LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00GA3MEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	FSs	YES
BD15GA3MEFJ-M		1.5											HTSOP-J8	FSs	YES
BD18GA3MEFJ-M		1.8											HTSOP-J8	FSs	YES
BD25GA3MEFJ-M		2.5											HTSOP-J8	FSs	YES
BD30GA3MEFJ-M		3.0											HTSOP-J8	FSs	YES
BD33GA3MEFJ-M		3.3											HTSOP-J8	FSs	YES
BD50GA3MEFJ-M		5.0											HTSOP-J8	FSs	YES
BD60GA3MEFJ-M		6.0											HTSOP-J8	FSs	YES
BD70GA3MEFJ-M		7.0											HTSOP-J8	FSs	YES
BD80GA3MEFJ-M		8.0											HTSOP-J8	FSs	YES
BD90GA3MEFJ-M		9.0											HTSOP-J8	FSs	YES
BDJ0GA3MEFJ-M		10.0											HTSOP-J8	FSs	YES
BDJ2GA3MEFJ-M		12.0											HTSOP-J8	FSs	YES

15V耐压 300mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00GA3MEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15GA3MEFJ-LB		1.5											HTSOP-J8
BD18GA3MEFJ-LB		1.8											HTSOP-J8
BD25GA3MEFJ-LB		2.5											HTSOP-J8
BD30GA3MEFJ-LB		3.0											HTSOP-J8
BD33GA3MEFJ-LB		3.3											HTSOP-J8
BD50GA3MEFJ-LB		5.0											HTSOP-J8
BD60GA3MEFJ-LB		6.0											HTSOP-J8
BD70GA3MEFJ-LB		7.0											HTSOP-J8
BD80GA3MEFJ-LB		8.0											HTSOP-J8
BD90GA3MEFJ-LB		9.0											HTSOP-J8
BDJ0GA3MEFJ-LB		10.0											HTSOP-J8
BDJ2GA3MEFJ-LB		12.0											HTSOP-J8

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

☆: 开发中

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

10V耐压 1.5A 可变输出/固定输出 LDO稳压器 带关断开关

Part No. / Consumer/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output Voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00HC5WEFJ/BD00HC5MEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	1.5	0.6	0.6 (I_O=1.5A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1.5A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HC5WEFJ/BD15HC5MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HC5WEFJ/BD18HC5MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HC5WEFJ/BD25HC5MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HC5WEFJ/BD30HC5MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HC5WEFJ/BD33HC5MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HC5WEFJ/BD50HC5MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HC5WEFJ/BD60HC5MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HC5WEFJ/BD70HC5MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

10V耐压 1.5A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00HC5MEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.5	0.6	0.6 (I_O=1.5A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1.5A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HC5MEFJ-LB		1.5											HTSOP-J8
BD18HC5MEFJ-LB		1.8											HTSOP-J8
BD25HC5MEFJ-LB		2.5											HTSOP-J8
BD30HC5MEFJ-LB		3.0											HTSOP-J8
BD33HC5MEFJ-LB		3.3											HTSOP-J8
BD50HC5MEFJ-LB		5.0											HTSOP-J8
BD60HC5MEFJ-LB		6.0											HTSOP-J8
BD70HC5MEFJ-LB		7.0											HTSOP-J8

10V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关

Part No. / Consumer/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00HC0WEFJ/BD00HC0MEFJ-M	4.5 to 8.0	Variable 0.8 to 7.0 (Automotive Grade Variable 1.5 to 7.0)	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HC0WEFJ/BD15HC0MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HC0WEFJ/BD18HC0MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HC0WEFJ/BD25HC0MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HC0WEFJ/BD30HC0MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HC0WEFJ/BD33HC0MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HC0WEFJ/BD50HC0MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HC0WEFJ/BD60HC0MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HC0WEFJ/BD70HC0MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

10V耐压 1A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00HC0MEFJ-LB	4.5 to 8.0	Variable 0.8 to 7.0 (Variable 1.5 to 7.0)	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HC0MEFJ-LB		1.5											HTSOP-J8
BD18HC0MEFJ-LB		1.8											HTSOP-J8
BD25HC0MEFJ-LB		2.5											HTSOP-J8
BD30HC0MEFJ-LB		3.0											HTSOP-J8
BD33HC0MEFJ-LB		3.3											HTSOP-J8
BD50HC0MEFJ-LB		5.0											HTSOP-J8
BD60HC0MEFJ-LB		6.0											HTSOP-J8
BD70HC0MEFJ-LB		7.0											HTSOP-J8

10V耐压 500mA 可变输出/固定输出 LDO稳压器 带关断开关

Part No. / Consumer/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00HA5WEFJ/BD00HA5MEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	0.5	0.6	0.6 (I_O=500mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HA5WEFJ/BD15HA5MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HA5WEFJ/BD18HA5MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HA5WEFJ/BD25HA5MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HA5WEFJ/BD30HA5MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HA5WEFJ/BD33HA5MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HA5WEFJ/BD50HA5MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HA5WEFJ/BD60HA5MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HA5WEFJ/BD70HA5MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

10V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00HA5MEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.5	0.6	0.6 (I_O=500mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HA5MEFJ-LB		1.5											HTSOP-J8
BD18HA5MEFJ-LB		1.8											HTSOP-J8
BD25HA5MEFJ-LB		2.5											HTSOP-J8
BD30HA5MEFJ-LB		3.0											HTSOP-J8
BD33HA5MEFJ-LB		3.3											HTSOP-J8
BD50HA5MEFJ-LB		5.0											HTSOP-J8
BD60HA5MEFJ-LB		6.0											HTSOP-J8
BD70HA5MEFJ-LB		7.0											HTSOP-J8

10V耐压 300mA 可变输出/固定输出 LDO稳压器 带关断开关

Part No. Consumer/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00HA3WEFJ/BD00HA3MEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HA3WEFJ/BD15HA3MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HA3WEFJ/BD18HA3MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HA3WEFJ/BD25HA3MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HA3WEFJ/BD30HA3MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HA3WEFJ/BD33HA3MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HA3WEFJ/BD50HA3MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HA3WEFJ/BD60HA3MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HA3WEFJ/BD70HA3MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

10V耐压 300mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package
BD00HA3MEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HA3MEFJ-LB		1.5											HTSOP-J8
BD18HA3MEFJ-LB		1.8											HTSOP-J8
BD25HA3MEFJ-LB		2.5											HTSOP-J8
BD30HA3MEFJ-LB		3.0											HTSOP-J8
BD33HA3MEFJ-LB		3.3											HTSOP-J8
BD50HA3MEFJ-LB		5.0											HTSOP-J8
BD60HA3MEFJ-LB		6.0											HTSOP-J8
BD70HA3MEFJ-LB		7.0											HTSOP-J8

7V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.	
													HTSOP-J8	HVSOF6
BD00IC0W	2.4 to 5.5	Variable 0.8 to 4.5	±1	1.0	0.3	0.4 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	BD00IC0WEFJ	BD00IC0WHFV
BD10IC0W		1.0											BD10IC0WEFJ	BD10IC0WHFV
BD12IC0W		1.2											BD12IC0WEFJ	BD12IC0WHFV
BD1CIC0W		1.25											—	BD1CIC0WHFV
BD15IC0W		1.5											BD15IC0WEFJ	BD15IC0WHFV
BD18IC0W		1.8											BD18IC0WEFJ	BD18IC0WHFV
BD25IC0W		2.5											BD25IC0WEFJ	BD25IC0WHFV
BD26IC0W		2.6											—	BD26IC0WHFV
BD30IC0W		3.0											BD30IC0WEFJ	BD30IC0WHFV
BD33IC0W		3.3											BD33IC0WEFJ	BD33IC0WHFV

车载用 7V耐压 1A 可变输出/固定输出 LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00IC0MEFJ-M	2.4 to 5.5	Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.0	0.3	0.4 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	FSs	YES
BD10IC0MEFJ-M		1.0											HTSOP-J8	FSs	YES
BD12IC0MEFJ-M		1.2											HTSOP-J8	FSs	YES
BD15IC0MEFJ-M		1.5											HTSOP-J8	FSs	YES
BD18IC0MEFJ-M		1.8											HTSOP-J8	FSs	YES
BD25IC0MEFJ-M		2.5											HTSOP-J8	FSs	YES
BD30IC0MEFJ-M		3.0											HTSOP-J8	FSs	YES
BD33IC0MEFJ-M		3.3											HTSOP-J8	FSs	YES

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低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

7V耐压 1A 可变输出/固定输出 LDO稳压器

Part No. / Industrial Equipment/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00IC0MEFJ-LB	2.3 to 5.5	Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.0	0.3	0.4 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—	—
BD10IC0MEFJ-LB	2.4 to 5.5	1.0											HTSOP-J8	—	—
BD12IC0MEFJ-LB		1.2											HTSOP-J8	—	—
BD15IC0MEFJ-LB		1.5											HTSOP-J8	—	—
BD18IC0MEFJ-LB		1.8											HTSOP-J8	—	—
BD25IC0MEFJ-LB		2.5											HTSOP-J8	—	—
BD30IC0MEFJ-LB		3.0											HTSOP-J8	—	—
BD33IC0MEFJ-LB/ BD33IC0MEFJ-C		3.3											HTSOP-J8	—/FSs	—/YES

7V耐压 500mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Protection Circuit	Package
BD10KA5FP	2.3 to 5.5	1.0	±1	0.5	0.35	0.12 (I_O=200mA)	50	25 (I_O=0 to 500mA)	1.0	1.0	Over-Current/ Temperature	TO252-3
BD12KA5FP		1.2										TO252-3
BD15KA5FP		1.5										TO252-3
BD18KA5FP		1.8										TO252-3
BD25KA5FP		2.5										TO252-3
BD30KA5FP		3.0										TO252-3
BD33KA5FP		3.3										TO252-3

7V耐压 500mA 可变输出/固定输出 LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.	
													TO252-5	SOP8
BD00KA5W	2.3 to 5.5	Variable 1.0 to 4.0	±1	0.5	0.35	0.12 (I_O=200mA)	50	25 (0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	BD00KA5WFP	BD00KA5WF
BD10KA5W		1.0											BD10KA5WFP	BD10KA5WF
BD12KA5W		1.2											BD12KA5WFP	BD12KA5WF
BD15KA5W		1.5											BD15KA5WFP	BD15KA5WF
BD18KA5W		1.8											BD18KA5WFP	BD18KA5WF
BD25KA5W		2.5											BD25KA5WFP	BD25KA5WF
BD30KA5W		3.0											BD30KA5WFP	BD30KA5WF
BD33KA5W		3.3											BD33KA5WFP	BD33KA5WF

7V耐压 500mA 可变输出/固定输出 LDO稳压器 带关断开关(BDxxIA系列)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00IA5WEFJ	2.4 to 5.5	Variable 0.8 to 4.5	±1	0.5	0.25	0.4 (I_O=500mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD10IA5WEFJ		1.0											HTSOP-J8
BD12IA5WEFJ		1.2											HTSOP-J8
BD15IA5WEFJ		1.5											HTSOP-J8
BD18IA5WEFJ		1.8											HTSOP-J8
BD25IA5WEFJ		2.5											HTSOP-J8
BD30IA5WEFJ		3.0											HTSOP-J8
BD33IA5WEFJ		3.3											HTSOP-J8

车载用 7V耐压 500mA 可变输出/固定输出 LDO稳压器 带关断开关(BDxxIA系列)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00IA5MEFJ-M/ BD00IA5MHFV-M	2.4 to 5.5	Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.5	0.25	0.4 (I_O=500mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8/ HVSOF6	FSs	YES
BD10IA5MEFJ-M		1.0											HTSOP-J8	FSs	YES
BD12IA5MEFJ-M		1.2											HTSOP-J8	FSs	YES
BD15IA5MEFJ-M		1.5											HTSOP-J8	FSs	YES
BD18IA5MEFJ-M		1.8											HTSOP-J8	FSs	YES
BD25IA5MEFJ-M		2.5											HTSOP-J8	FSs	YES
BD30IA5MEFJ-M		3.0											HTSOP-J8	FSs	YES
BD33IA5MEFJ-M		3.3											HTSOP-J8	FSs	YES

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7V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00IA5MEFJ-LB	2.4 to 5.5	Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.5	0.25	0.4 (I_O=500mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD10IA5MEFJ-LB		1.0											HTSOP-J8
BD12IA5MEFJ-LB		1.2											HTSOP-J8
BD15IA5MEFJ-LB		1.5											HTSOP-J8
BD18IA5MEFJ-LB		1.8											HTSOP-J8
BD25IA5MEFJ-LB		2.5											HTSOP-J8
BD30IA5MEFJ-LB		3.0											HTSOP-J8
BD33IA5MEFJ-LB		3.3											HTSOP-J8

6.5V耐压 500mA Full CMOS LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (μA)	I/O Voltage Difference (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BU18SD5WG	1.7 to 6.0	1.8	±1	0.5	33.0	150 (I_O=100mA)	68	0.5	Over Current/ Temperature	SSOP5
BU33SD5WG		3.3				85 (I_O=100mA)				SSOP5

6.5V耐压 500mA Full CMOS LDO稳压器 带关断开关 WL-CSP型

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BU30SA5WGWZ	1.8 to 5.0	3	±1	0.5	0.033	0.08 (I_O=100mA)	70dB (f=1kHz)	6 (I_{OUT}=0.01mA to 300mA)	Over Current/ Temperature	UCSP30L1
BU33SA5WGWZ		3.3								UCSP30L1

6.5V耐压 300mA CMOS LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Soft Start Function	Package
BH15M0AWHFV	2.5 to 5.5	1.5	±25mV	0.3	–	60	6 (I_O=1 to 100mA)	65	100	1.0	1.0	✓	✓	✓	–	–	HVSOF6
BH18M0AWHFV		1.8															HVSOF6
BH20M0AWHFV		2.0															HVSOF6
BH21M0AWHFV		2.1															HVSOF6
BH25M0AWHFV		2.5	±1		60 (I_O=100mA)												HVSOF6
BH26M0AWHFV		2.6															HVSOF6
BH27M0AWHFV		2.7															HVSOF6
BH28M0AWHFV		2.8															HVSOF6
BH29M0AWHFV		2.9															HVSOF6
BH30M0AWHFV		3.0															HVSOF6
BH31M0AWHFV		3.1															HVSOF6
BH32M0AWHFV		3.2															HVSOF6
BH33M0AWHFV		3.3															HVSOF6
BH34M0AWHFV		3.4															HVSOF6

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

6.5V耐压 200mA CMOS LDO稳压器(低输出容量适用) 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package/Part No. SSON004X1010	Package/Part No. SSOP5
BU10TD2/BU10TD3	1.7 to 5.5	1.0	±25mV	0.2	—	70	10 (I_O=1 to 100mA)	35	70	0.47	0.47	✓	✓	✓	✓	BU10TD2WNVX	BU10TD3WG
BU1ATD2/—		1.05														BU1ATD2WNVX	—
BU11TD2/BU11TD3		1.1														BU11TD2WNVX	BU11TD3WG
BU1BTD2/—		1.15														BU1BTD2WNVX	—
BU12TD2/BU12TD3		1.2														BU12TD2WNVX	BU12TD3WG
BU1CTD2/BU1CTD3		1.25														BU1CTD2WNVX	BU1CTD3WG
BU13TD2/BU13TD3		1.3														BU13TD2WNVX	BU13TD3WG
BU15TD2/BU15TD3		1.5														BU15TD2WNVX	BU15TD3WG
BU18TD2/BU18TD3		1.8														BU18TD2WNVX	BU18TD3WG
BU1JTD2/BU1JTD3		1.85														BU1JTD2WNVX	BU1JTD3WG
BU19TD2/BU19TD3		1.9														BU19TD2WNVX	BU19TD3WG
BU20TD2/BU20TD3		2.0														BU20TD2WNVX	BU20TD3WG
BU2ATD2/—		2.05														BU2ATD2WNVX	—
BU21TD2/BU21TD3		2.1														BU21TD2WNVX	BU21TD3WG
BU23TD2/—		2.3														BU23TD2WNVX	—
BU25TD2/BU25TD3		2.5	±1		280 (I_O=200mA)											BU25TD2WNVX	BU25TD3WG
BU26TD2/BU26TD3		2.6														BU26TD2WNVX	BU26TD3WG
BU27TD2/BU27TD3		2.7			260 (I_O=200mA)											BU27TD2WNVX	BU27TD3WG
BU2HTD2/—		2.75														BU2HTD2WNVX	—
BU28TD2/BU28TD3		2.8														BU28TD2WNVX	BU28TD3WG
BU2JTD2/BU2JTD3WG		2.85														BU2JTD2WNVX	BU2JTD3WG
BU29TD2/BU29TD3		2.9			240 (I_O=200mA)											BU29TD2WNVX	BU29TD3WG
BU30TD2/BU30TD3		3.0														BU30TD2WNVX	BU30TD3WG
BU31TD2/BU31TD3		3.1														BU31TD2WNVX	BU31TD3WG
BU32TD2/BU32TD3		3.2			220 (I_O=200mA)											BU32TD2WNVX	BU32TD3WG
BU33TD2/BU33TD3		3.3														BU33TD2WNVX	BU33TD3WG
BU34TD2/BU34TD3		3.4														BU34TD2WNVX	BU34TD3WG

车载用 6.5V耐压 300mA CMOS LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (Max) (mV)	Ripple Rejection (dB)	Load Regulation (Max) (mV)	Circuit Current (μA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BU12JA3DG-C	1.7 to 6.0	1.2	±2 (T_j=−40 to +150°C)	0.3	500 (I_O=300mA)	60	15	37	0.1	1.0	✓	✓	✓	✓	SSOP5	FSs	YES
New BU15JA3DG-C		1.5			365 (I_O=300mA)		15	37							SSOP5	FSs	YES
New BU18JA3DG-C		1.8			330 (I_O=300mA)		15	37							SSOP5	FSs	YES
New BU25JA3DG-C		2.5			240 (I_O=300mA)		15	37							SSOP5	FSs	YES
New BU30JA3DG-C		3.0			220 (I_O=300mA)		15	37							SSOP5	FSs	YES
New BU33JA3DG-C		3.3			200 (I_O=300mA)		15	37							SSOP5	FSs	YES

车载用 6.5V耐压 200mA CMOS LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package/Part No. SSON004X1216	Package/Part No. HVSOF5
BU15TA2W	2.5 to 5.5	1.5	±25mV	0.2	—	70	10 (I_O=0.01 to 100mA)	40	70	1.0	1.0	✓	✓	✓	✓	BU15TA2WNVX	BU15TA2WHFV
BU18TA2W		1.8														BU18TA2WNVX	BU18TA2WHFV
BU25TA2W		2.5	±1		400 (I_O=200mA)	65										BU25TA2WNVX	BU25TA2WHFV
BU26TA2W		2.6														BU26TA2WNVX	BU26TA2WHFV
BU27TA2W		2.7			360 (I_O=200mA)											BU27TA2WNVX	BU27TA2WHFV
BU28TA2W		2.8														BU28TA2WNVX	BU28TA2WHFV
BU2JTA2W		2.85														BU2JTA2WNVX	BU2JTA2WHFV
BU29TA2W		2.9			330 (I_O=200mA)											BU29TA2WNVX	BU29TA2WHFV
BU30TA2W		3.0														BU30TA2WNVX	BU30TA2WHFV
BU31TA2W		3.1														BU31TA2WNVX	BU31TA2WHFV
BU32TA2W		3.2			300 (I_O=200mA)											BU32TA2WNVX	BU32TA2WHFV
BU33TA2W		3.3														BU33TA2WNVX	BU33TA2WHFV
BU34TA2W		3.4														BU34TA2WNVX	BU34TA2WHFV

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

车载用 6.5V耐压 200mA CMOS LDO稳压器 带关断开关(BUxxSD系列 V_{IN}=1.7 to 6.0V)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU12SD2MG-M	1.7 to 6.0	1.2	±2 (T_a=−40 to +105°C)	0.2	400 (I_O=100mA)	68	1 (I_O=1 to 200mA)	33	100	1.0	1.0	✓	✓	✓	–	SSOP5	FSs	YES
BU15SD2MG-M		1.5			280 (I_O=100mA)											SSOP5	FSs	YES
BU18SD2MG-M		1.8			150 (I_O=100mA)											SSOP5	FSs	YES
BU25SD2MG-M		2.5			100 (I_O=100mA)											SSOP5	FSs	YES
BU28SD2MG-M		2.8			85 (I_O=100mA)											SSOP5	FSs	YES
BU30SD2MG-M		3.0														SSOP5	FSs	YES
BU33SD2MG-M		3.3														SSOP5	FSs	YES

6.5V耐压 200mA CMOS LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU10JA2MNVX-C	1.7 to 6.0	1.0	±36mV	0.2	800	70	10	35	70	0.47	0.47	✓	✓	✓	✓	SSON004R1010	FSs	YES
BU11JA2MNVX-C		1.1														SSON004R1010	FSs	YES
BU12JA2MNVX-C		1.2			600											SSON004R1010	FSs	YES
BU1CJA2MNVX-C		1.25														SSON004R1010	FSs	YES
BU15JA2MNVX-C		1.5			440											SSON004R1010	FSs	YES
BU18JA2MNVX-C		1.8	±2		380											SSON004R1010	FSs	YES
BU25JA2MNVX-C		2.5			280											SSON004R1010	FSs	YES
BU28JA2MNVX-C		2.8			260											SSON004R1010	FSs	YES
BU2JJA2MNVX-C		2.85														SSON004R1010	FSs	YES
BU29JA2MNVX-C		2.9			240											SSON004R1010	FSs	YES
BU30JA2MNVX-C		3.0														SSON004R1010	FSs	YES
BU33JA2MNVX-C		3.3			220											SSON004R1010	FSs	YES
BU34JA2MNVX-C		3.4														SSON004R1010	FSs	YES
BU10JA2VG-C		1.0			–	68	0.5	33	100	1.0	1.0	✓	✓	✓	–	SSOP5	FSs	YES
BU12JA2VG-C		1.2														SSOP5	FSs	YES
BU1CJA2VG-C		1.25														SSOP5	FSs	YES
BU15JA2VG-C		1.5														SSOP5	FSs	YES
BU18JA2VG-C		1.8			160											SSOP5	FSs	YES
BU25JA2VG-C		2.5	±2		100											SSOP5	FSs	YES
BU28JA2VG-C		2.8			85											SSOP5	FSs	YES
BU2JJA2VG-C		2.85														SSOP5	FSs	YES
BU30JA2VG-C		3.0														SSOP5	FSs	YES
BU33JA2VG-C		3.3														SSOP5	FSs	YES
BU10JA2DG-C		1.0			–										✓	SSOP5	FSs	YES
BU12JA2DG-C		1.2														SSOP5	FSs	YES
BU1CJA2DG-C		1.25														SSOP5	FSs	YES
BU15JA2DG-C		1.5														SSOP5	FSs	YES
BU18JA2DG-C		1.8			160											SSOP5	FSs	YES
BU25JA2DG-C		2.5			100											SSOP5	FSs	YES
BU28JA2DG-C		2.8			85											SSOP5	FSs	YES
BU2JJA2DG-C		2.85														SSOP5	FSs	YES
BU30JA2DG-C		3.0														SSOP5	FSs	YES
BU33JA2DG-C		3.3														SSOP5	FSs	YES

6.5V耐压 200mA CMOS LDO稳压器 带关断开关 WL-CSP型

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package (mm)
BU18SA4WGWL	1.7 to 5.5	1.8	±2	0.2	100 (I_O=150mA)	70	2 (I_O=1 to 100mA)	40	100	0.47	0.47	✓	✓	✓	–	UCSP50L1 0.8×0.8, H=Max 0.55mm
BU25SA4WGWL		2.5			80 (I_O=150mA)											UCSP50L1 0.8×0.8, H=Max 0.55mm
BU2FSA4WGWL		2.55														UCSP50L1 0.8×0.8, H=Max 0.55mm
BU28SA4WGWL		2.8														UCSP50L1 0.8×0.8, H=Max 0.55mm
BU30SA4WGWL		3.0														UCSP50L1 0.8×0.8, H=Max 0.55mm
BU33SA4WGWL		3.3														UCSP50L1 0.8×0.8, H=Max 0.55mm

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

6.5V耐压 150mA CMOS LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Package
BH25NB1WHFV	2.5 to 5.5	2.5	±1	0.15	250 (I_O=100mA)	80	6 (I_O=1 to 100mA)	60	50	0.1	2.2	✓	✓	✓	HVSOF5
BH28NB1WHFV		2.8													HVSOF5
BH2JNB1WHFV		2.85													HVSOF5
BH29NB1WHFV		2.9													HVSOF5
BH30NB1WHFV		3.0													HVSOF5
BH31NB1WHFV		3.1													HVSOF5
BH33NB1WHFV		3.3													HVSOF5

6.5V耐压 150mA CMOS LDO稳压器 WL-CSP型

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Package (mm)
BH15RB1WGUT	2.5 to 5.5	1.5	±25mV	0.15	–	63	2 (I_O=1 to 100mA)	34	40	1.0	1.0	✓	✓	✓	VCSP60N1 1.04×1.0, H=Max 0.675
BH18RB1WGUT		1.8													VCSP60N1 1.04×1.0, H=Max 0.675
BH25RB1WGUT		2.5	±1		100 (I_O=100mA)										VCSP60N1 1.04×1.0, H=Max 0.675
BH28RB1WGUT		2.8													VCSP60N1 1.04×1.0, H=Max 0.675
BH29RB1WGUT		2.9													VCSP60N1 1.04×1.0, H=Max 0.675
BH30RB1WGUT		3.0													VCSP60N1 1.04×1.0, H=Max 0.675
BH31RB1WGUT		3.1													VCSP60N1 1.04×1.0, H=Max 0.675
BH33RB1WGUT		3.3													VCSP60N1 1.04×1.0, H=Max 0.675

6.5V耐压 150mA CMOS LDO稳压器 带模式切换功能

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%) High Speed Mode	Output Voltage Precision (%) Low I_{CC} Mode	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current(μA) High Speed Mode	Circuit Current(μA) Low I_{CC} Mode	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package
BH12PB1WHFV	1.7 to 5.5	1.2	±25mV	−3.3 to +4.3	0.15	–	60 (High speed mode)	10 (I_O=10 to 100mA)	20	2	50	0.47	0.47	✓	✓	✓	✓	HVSOF5
BH15PB1WHFV		1.5																HVSOF5
BH18PB1WHFV		1.8																HVSOF5
BH25PB1WHFV		2.5	±1	−3.0 to +3.8		210 (I_O=100mA)												HVSOF5
BH28PB1WHFV		2.8																HVSOF5
BH29PB1WHFV		2.9																HVSOF5
BH30PB1WHFV		3.0																HVSOF5
BH31PB1WHFV		3.1																HVSOF5
BH33PB1WHFV		3.3																HVSOF5

6V耐压 可输出超低电压 LDO稳压器

Part No.	Output Current (A)	Input Voltage (V) V_{CC}	Input Voltage (V) V_{IN}	Output Voltage (V)	Voltage Accuracy (%)	Power Good	Adjustable Soft Start	UVLO	OCP	TSD	Package
New BD00JC0MNUX-M	1	3.0 to 5.5	0.95 to V_{CC}−1	0.65 to 2.7	±2	✓	✓	✓	Recovery	Recovery	VSON010X3030

UVLO：低电压误动作防止、OCP：过流保护、TSD：温度保护

超低饱和稳压器(LDO)

超低饱和型、快速瞬态响应 LDO稳压器

Part No.	Output Current (A)	Input Voltage (V) V_{CC}	Input Voltage (V) V_{IN}	Output Voltage (V)	Voltage Accuracy (%)	Power Good	Adjustable Soft Start	UVLO	OCP	TSD	Package
BD3550HFN	0.5	4.3 to 5.5	0.95 to (V_{CC}−1)	0.65 to 2.70	±1	–	✓	✓	Recovery	Recovery	HSON8
BD3551HFN	1.0	4.3 to 5.5	0.95 to (V_{CC}−1)								HSON8
BD3552HFN	2.0		0.95 to (V_{CC}−1)	0.65 to 2.70							HSON8
BD3508MUV	3.0		0.75 to (V_{CC}−1)								VQFN020V4040
BD3540NUV	0.5	3.0 to 5.5	0.95 to (V_{CC}−1)	0.65 to 2.70	±1	✓	✓	✓	Recovery	Recovery	VSON010V3030
BD3541NUV	1.0										VSON010V3030
BD3509MUV	4.0	4.3 to 5.5	0.7 to (V_{CC}−1)							Recovery	VQFN020V4040

UVLO：低电压误动作防止、OCP：过流保护、TSD：温度保护

多通道输出 低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

2ch 输出可选 CMOS LDO稳压器

Part No.	Input Voltage (V)	V_{OUT}	Selectable Output Voltage (V)									Output Voltage Precision (%)	Output Current (A)	Vsat (mV) (I_O=100mA)	Ripple Rejection (dB)	Load Regulation (%)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Low Voltage Protection	Package (mm)
BD7602GUL	2.7 to 5.5	1ch	3.0									2	0.1	–	45	0.7	10	–	1.0	4.7	✓	✓	✓	✓	VCSP50L1C 1.6x1.6, H=Max 0.57
		2ch	2.8	2.9	2.95	3.0	3.05	3.1	3.2	3.3	–		0.15												

3ch CMOS LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision	Output Current (A)	Vsat (mV) (I_O=200mA)	Ripple Rejection (dB)	Load Regulation (%)	ch	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package
BU6650NUX	2.5 to 5.5	2.8	±1%	0.2	360	65	10 (I_O=1 to 100mA)	1	120	70	2.2	1.0	✓	✓	✓	✓	VSON008X2030
		2.8	±1%		360	65		2									
		1.8	±25mV		–	70		3									
BU6651NUX		2.8	±1%		360	65		1									VSON008X2030
		1.8	±25mV		–	70		2									
		1.5	±25mV		–	70		3									
BU6652NUX		2.8	±1%		360	65		1									VSON008X2030
		2.8	±1%		360	65		2									
		1.5	±25mV		–	70		3									
BU6653NUX		2.8	±1%		360	65		1									VSON008X2030
		1.8	±25mV		–	70		2									
		1.8	±25mV		–	70		3									
BU6654NUX		3.3	±1%		300	65		1									VSON008X2030
		1.8	±25mV		–	70		2									
		1.5	±25mV		–	70		3									
BU6655NUX		3.3	±1%		300	65		1									VSON008X2030
		2.8	±1%		360	65		2									
		1.8	±25mV		–	70		3									

带看门狗计时器的低饱和稳压器(LDO)

550mA LDO稳压器＋看门狗计时器复位

Part No.	Input Voltage (V)	LDO				Voltage Detector			Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)	Function					
BD4271EFJ-C	5.5 to 45.0	5	±2 (T_j=−40 to +150°C)	0.55	0.2 (I_O=300mA)	4.65	±2.6	4.65V Voltage Detector+WDT	75	T_j=−40 to +150	HTSOP-J8	FSs	YES
BD4271HFP-C											HRP7	FSs	YES
BD4271FP2-C											TO263-7	FSs	YES

500mA LDO稳压器＋看门狗计时器复位

Part No.	Input Voltage (V)	LDO				Voltage Detector			Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)	Function					
BD3021HFP	5.6 to 36.0	5	±2 (T_a=−40 to +125°C)	0.5	0.3 (I_O=200mA)	4.5	±2	4.5V Voltage Detector+WDT (Active switch)	80	T_a=−40 to +125	HRP7	FSs	YES
BD3020HFP						Variable (at Vs open: 4.1V)		Adjustable Voltage Detector+WDT			HRP7	FSs	YES

200mA LDO稳压器＋看门狗计时器复位

Part No.	Input Voltage (V)	LDO				Voltage Detector			Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)	Function					
New BD820F5UEFJ-C	5.9 to 42.0	5	±2 (T_j=−40 to +150°C)	0.2	0.4 (I_O=200mA)	4.2	±2.62	4.2V Voltage Detector+WDT	5	T_j=−40 to +150	HTSOP-J8	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

带电压检测器的低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

500mA LDO稳压器＋复位

Part No.	Input Voltage (V)	LDO				Voltage Detector		Shutdown Switch	Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)						
BD42754FPJ-C	5.5 to 45.0	5	±2 (T_j=−40 to +150°C, V_{CC}=6.0 to 28V, I_O=5 to 400mA)	0.5	0.25 (I_O=300mA)	4.62	±2.8	–	75	T_j=−40 to +150	TO252-J5	FSs	YES
BD42754FP2-C											TO263-5	FSs	YES

200mA/300mA LDO稳压器＋复位

Part No.	Input Voltage (V)	LDO				Voltage Detector		Shutdown Switch	Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)						
BD4269FJ-C	5.5 to 45.0	5	±2 (T_j=−40 to +150°C, V_{CC}=6.0 to 16V, I_O=1 to 100mA)	0.2	0.25 (I_O=100mA)	Variable (with RADJ not used: 4.62V)	±2.6	–	70	T_j=−40 to +150	SOP-J8	FSs	YES
New BD4269UEFJ-C				0.3							HTSOP-J8	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

电压跟踪器

500mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3925FP-C	4.5 to 36.0	0.5	±10 (T_a=−40 to +125°C, V_{CC}=6 to 36V, I_O=5 to 200mA)	0.25 (I_O=200mA)	45	T_a=−40 to +125	TO252-5	FSs	YES
BD3925HFP-C							HRP5	FSs	YES

250mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD42530UEFJ-C	5.6*2 to 42.0	0.25	±10 (T_j=−40 to +150°C, V_{CC}=6 to 32V, I_O=0.1 to 250mA)	0.28 (I_O=200mA)	40	T_j=−40 to +150	HTSOP-J8	FSs	YES
BD42530FP2-C							TO263-5	FSs	YES
BD42530FPJ-C							TO252-J5	FSs	YES

50mA/70mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD42500G-C	5.3*2 to 42.0	0.05	±15 (T_j=−40 to +150°C, V_{CC}=6 to 40V, I_O=1 to 50mA)	0.12 (I_O=50mA)	40	T_j=−40 to +150	SSOP5	FSs	YES
BD42540FJ-C	5.4*2 to 42.0	0.07	±10 (T_j=−40 to +150°C, V_{CC}=5.5 to 26V, I_O=0.1 to 60mA)	0.2 (I_O=70mA)	40	T_j=−40 to +150	SOP-J8	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。
*2 5V setting

高音质音响用电源

高音质音响用电源

Part No.	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Reference Voltage Accuracy (%)	Dropout Voltage (mV)	Noise Level (μVrms)	PSRR (dB)	Over Current Protection	Thermal Protection	Package
BD37201NUX	0.5	2.7 to 5.5	Variable 1.0 to 4.5	±1	200	3.3	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VSON008X2030

DDR SDRAM用线性稳压器

DDR SDRAM用终端稳压器

Part No.	V_{CC} Input Voltage (V)	V_{TT_IN} Termination Input Voltage (V)	V_{DDQ} Reference Input Voltage (V)	V_{TT} Output Voltage (V)	V_{TT} Voltage Precision (mV)	V_{TT} Output Current (A)	V_{REF} Output Current (mA)	Features															Package
								Enable	Soft Start	Power Good	UVLO	Output Ceramic Capacitors	Thermal Protection	DDR (VDDQ)									
														DDR1 (2.5V/2.6V)	DDR2 (1.8V)	DDR2L (1.5V)	LPDDR2 (1.2V)	DDR3 (1.5V)	DDR3L (1.35V)	DDR3U (1.25V)	LPDDR3 (1.2V)	DDR4 (1.2V)	
BD3533F	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±30	±1.0	±20	✓	✓	–	✓	–	Recovery	✓	✓	–	–	–	–	–	–	–	SOP8
BD3533FVM																							MSOP8
BD3533HFN																							HSON8
BD3539FVM	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±15	±1.0	±25	✓	✓	–	✓	✓	Recovery	✓	✓	✓	–	✓	–	–	–	–	MSOP8
BD3539NUX																							VSON008X2030
BD35390FJ	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±15	±1.0	–	✓	✓	✓	✓	✓	Recovery	✓	✓	✓	–	✓	–	–	–	–	SOP-J8

车载用 DDR SDRAM用终端稳压器

Part No.	V_{CC} Input Voltage (V)	V_{TT_IN} Termination Input Voltage (V)	V_{DDQ} Reference Input Voltage (V)	V_{TT} Output Voltage (V)	V_{TT} Voltage Precision (mV)	V_{TT} Output Current (A)	V_{REF} Output Current (mA)	Features															Package	Automotive Grade AEC-Q100
								Enable	Soft Start	Power Good	UVLO	Output Ceramic Capacitors	Thermal Protection	DDR (VDDQ)										
														DDR1 (2.5V/2.6V)	DDR2 (1.8V)	DDR2L (1.5V)	LPDDR2 (1.2V)	DDR3 (1.5V)	DDR3L (1.35V)	DDR3U (1.25V)	LPDDR3 (1.2V)	DDR4 (1.2V)		
BD35395FJ-M	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.500 to 1.375	±13.5	±1.0	–	✓	✓	✓	✓	✓	Recovery	✓	✓	✓	–	✓	✓	–	–	–	SOP-J8	YES

开关稳压器

内置FET的开关稳压器(降压转换器)	P.43	内置FET的开关稳压器(升压/升降压转换器)	P.45
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开关稳压器

内置FET的开关稳压器(降压转换器)

耐压7V以下 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9122GUL	7	0.3	2.5 to 5.5	1 to 2	1	200	Current	–	–	✓	✓	Latch	Latch	VCSP50L2 2.5×1.1, H=0.55
Nano BD70522GUL*1	6	0.5	2.5 to 5.5	1.2 to 3.3*2	1	0.18	On-time	✓	–	✓	✓	Recovery	Recovery	VCSP50L1C 1.76×1.56, H=0.57
BD9161FVM	7	0.6	2.5 to 4.5	1.0 to 3.3	1	200	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD9161FVM-LB	7	0.6	2.5 to 4.5	1.0 to 3.3	1	200	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD9120HFN	7	0.8	2.7 to 4.5	1.0 to 1.5	1	200	Current	–	–	✓	✓	Latch	Latch	HSON8
BD9102FVM	7	0.8	4.0 to 5.5	1.24	1	250	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD8966FVM	7	0.8	4.0 to 5.5	1.0 to 2.5	1	–	Current	–	–	✓	–	Latch	Latch	MSOP8
BD9106FVM	7	0.8	4.0 to 5.5	1.0 to 2.5	1	250	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD9106FVM-LB	7	0.8	4.0 to 5.5	1.0 to 2.5	1	250	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD9109FVM	7	0.8	4.5 to 5.5	3.3	1	250	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD9109FVM-LB	7	0.8	4.5 to 5.5	3.3	1	250	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD8967FVM	7	0.8	4.5 to 5.5	3.3	1	–	Current	–	–	✓	–	Latch	Latch	MSOP8
BD9104FVM	7	0.8	4.5 to 5.5	3.3	1	250	Current	–	–	✓	✓	Latch	Latch	MSOP8
BD9A100MUV	7	1	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A101MUV-LB	7	1	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B100MUV	7	1	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	35	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BU90008GWZ	7	1	2.3 to 5.5	1	3.6	45	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90003GWZ	7	1	2.3 to 5.5	1.2	4	45	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90007GWZ	7	1	2.3 to 5.5	1.25	4	45	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90009GWZ	7	1	2.3 to 5.5	1.3	4.2	45	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90004GWZ	7	1	2.3 to 5.5	1.8	5.4	45	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90104GWZ	7	1	2.3 to 5.5	1.8	5.4	45	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90005GWZ	7	1	2.3 to 5.5	2.5	6	45	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90006GWZ	7	1	2.3 to 5.5	3	6	55	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90002GWZ	7	1	4.0 to 5.5	3.3	6	55	On-time	–	–	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4

耐压7V以下 1.2～3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD8964FVM	7	1.2	4.0 to 5.5	1.0 to 1.8	1	–	Current	–	–	✓	–	Latch	Latch	MSOP8
BD9107FVM	7	1.2	4.0 to 5.5	1.0 to 1.8	1	250	Current	–	–	✓	✓	Latch	Latch	MSOP8
BU90028NUX	7	1.5	2.3 to 5.5	1.18	1	53	On-time	–	–	✓	✓	Recovery	Recovery	VSON008X2030
BU90023NUX	7	1.5	2.3 to 5.5	1.23	1	53	On-time	–	–	✓	✓	Recovery	Recovery	VSON008X2030
BD9B200MUV	7	2	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	40	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9A201FP4-LBZ	7	2	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	–	✓	–	Recovery	Recovery	TSOT23-8L
BD9110NV	7	2	4.5 to 5.5	1.0 to 2.5	1	250	Current	–	–	✓	✓	Latch	Latch	SON008V5060
BD8960NV	7	2	2.7 to 5.5	1.0 to 2.5*2	1	–	Current	–	–	✓	–	Latch	Latch	SON008V5060
BD9130NV	7	2	2.7 to 5.5	1.0 to 2.5*2	1	250	Current	–	–	✓	✓	Latch	Latch	SON008V5060
BD8961NV	7	2	4.5 to 5.5	3.3	1	–	Current	–	–	✓	–	Latch	Latch	SON008V5060
BD9111NV	7	2	4.5 to 5.5	3.3	1	250	Current	–	–	✓	✓	Latch	Latch	SON008V5060
BD8962MUV	7	3	2.7 to 5.5	0.8 to 2.5*2	1	–	Current	–	–	✓	–	Latch	Latch	VQFN020V4040
BD8963EFJ	7	3	2.7 to 5.5	1.0 to 2.5*2	1	–	Current	–	–	✓	–	Latch	Latch	HTSOP-J8
BD9139MUV	7	3	2.7 to 5.5	0.8 to 3.3*2	1	200	Current	–	–	✓	✓	Latch	Latch	VQFN016V3030
BD9A300MUV	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A301MUV-LB	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B305QUZ	7	3	2.7 to 5.5	0.6 to (V_{IN}×0.8)	1	15	On-time	✓	✓	✓	✓	Recovery	Recovery	VMMP08LZ2020 2.0×2.0, H=0.4
BD9B333GWZ	7	3	2.7 to 5.5	0.6 to (V_{IN}×0.8)	1.3	50	On-time	✓	✓	✓	Deep	Recovery	Recovery	UCSP35L1 1.98×1.8, H=0.4
BD9B300MUV	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	35	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9B301MUV-LB	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9B304QWZ	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	40	On-time	–	–	✓	Deep	Recovery	Recovery	UMMP008AZ020 2.0×2.0, H=0.4

*1 BD70522GUL内搭载了日本碍子株式会社的小型大容量锂离子二次电池“EnerCera®”的超高效电池管理解决方案参考板“REFLVBMS001-EVK-001”。详情请参阅网站。
*2 根据输入输出电压条件，会存在限制。

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内置FET的开关稳压器(降压转换器)

耐压7V以下 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9137MUV	7	4	2.7 to 5.5	0.8 to 3.3*	1	250	Current	–	–	✓	✓	Recovery	Recovery	VQFN020V4040
BD91361MUV	7	4	2.7 to 5.5	0.8 to 3.3*	1	250	Current	–	–	✓	✓	Latch	Latch	VQFN020V4040
BD9A400MUV	7	4	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B400MUV	7	4	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD91364BMUU	7	5	2.9 to 5.5	0.8 to (V_{IN}×0.8)	1.7	150	On-time	✓	✓	✓	✓	Latch	Recovery	VQFN20U4040M
BD9B500MUV	7	5	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9A600MUV	7	6	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	400	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B600MUV	7	6	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030

耐压20V以下 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD8312HFN	15	0.8	3.5 to 14.0	1.2 to 12.0*	1.5	600	Voltage	–	–	✓	–	–	Recovery	–	HSON8
BD8313HFN	15	1	3.5 to 14.0	1.2 to 12.0*	1	600	Voltage	–	–	✓	–	–	Recovery	–	HSON8

耐压20V以下 2A～3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9141MUV	15	2	4.5 to 13.2	2.5 to 6.0*	0.5	300	Current	–	–	✓	✓	Latch	Latch	–	VQFN020V4040
BD95821MUV	15.2	2	7.5 to 15.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.5 to 0.8	1,200	H³Reg	✓	–	✓	–	Latch	Recovery	✓	VQFN016V3030
BD9325FJ	20	2	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	–	✓	–	–	Recovery	Recovery	–	SOP-J8
BD9325FJ-LB	20	2	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	–	✓	–	–	Recovery	Recovery	–	SOP-J8
BD9859EFJ	15	3	5 to 14	1.0 to (V_{IN}×0.7)	0.75	2,800	Current	–	–	–	–	Recovery	Recovery	–	HTSOP-J8
BD95831MUV	15.2	3	7.5 to 15.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.5 to 0.8	1,200	H³Reg	✓	–	✓	–	Latch	Recovery	✓	VQFN016V3030
BD9D320EFJ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	1,000	On-time	–	✓	✓	–	Recovery	Recovery	–	HTSOP-J8
BD9D300MUV	20	3	4.0 to 17.0	0.9 to 5.25	1.25	20	On-time	✓	✓	✓	✓	Recovery	Recovery	✓	VQFN016V3030
BD9C301FJ	20	3	4.5 to 18.0	(V_{IN}×0.125) to (V_{IN}×0.7)	0.5	1,500	Current	–	–	✓	–	Latch	Recovery	–	SOP-J8
BD9C301FJ-LB	20	3	4.5 to 18.0	(V_{IN}×0.125) to (V_{IN}×0.7)	0.5	1,500	Current	–	–	✓	–	Latch	Recovery	–	SOP-J8
BD9D321EFJ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	700	On-time	–	✓	✓	✓	Recovery	Recovery	–	HTSOP-J8
BD9D322QWZ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	700	On-time	–	✓	✓	✓	Recovery	Recovery	–	UMMP008Z2020 2.0×2.0, H=0.4
BD9D323QWZ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	1,000	On-time	–	✓	✓	–	Recovery	Recovery	–	UMMP008Z2020 2.0×2.0, H=0.4
BD9326EFJ	20	3	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	–	✓	–	–	Recovery	Recovery	–	HTSOP-J8
BD9326EFJ-LB	20	3	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	–	✓	–	–	Recovery	Recovery	–	HTSOP-J8

耐压20V以下 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD95841MUV	15.2	4	7.5 to 15.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.5 to 0.8	1,200	H³Reg	✓	–	✓	–	Latch	Recovery	✓	VQFN016V3030
BD9C401EFJ	20	4	4.5 to 18.0	(V_{IN}×0.125) to (V_{IN}×0.7) (V_{IN}×0.125)≥0.8	0.5	1,500	Current	–	–	✓	–	Latch	Recovery	–	HTSOP-J8
BD9327EFJ	20	4	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	–	✓	–	–	Recovery	Recovery	–	HTSOP-J8
BD9327EFJ-LB	20	4	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	–	✓	–	–	Recovery	Recovery	–	HTSOP-J8
BD9C501EFJ	20	5	4.5 to 18.0	(V_{IN}×0.075) to (V_{IN}×0.7) (V_{IN}×0.075)≥0.8	0.5	1,500	Current	–	–	✓	–	Latch	Recovery	–	HTSOP-J8
BD9C601EFJ	20	6	4.5 to 18.0	(V_{IN}×0.075) to (V_{IN}×0.7) (V_{IN}×0.075)≥0.8	0.5	1,500	Current	–	–	✓	–	Latch	Recovery	–	HTSOP-J8
BD95861MUV	20	6	7.5 to 18.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.35 to 0.80	1,200	H³Reg	✓	–	✓	–	Latch	Recovery	✓	VQFN024V4040

耐压22V以上 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9G102G-LB	45	0.5	6 to 42	(V_{IN}×0.08) to (V_{IN}×0.8) (V_{IN}×0.08)≥0.75	1	500	Current	–	–	–	–	Recovery	Recovery	✓	SSOP6
BD9G101G	45	0.5	6 to 42	(V_{IN}×0.15) to (V_{IN}×0.7) (V_{IN}×0.15)≥1.0	1.5	700	Current	–	–	–	–	Recovery	Recovery	–	SSOP6
BD9227F	22	1	6 to 20	(V_{IN}×0.252) to V_{IN} (V_{IN}×0.252)≥1.0	1	400	Current	–	–	–	–	Recovery	Recovery	–	SOP8
New BD9E105FP4-Z	30	1	4.5 to 28	V_{IN}×0.1V or 0.7V to V_{IN}×0.8V	0.5	55	Current	–	–	✓	✓	Recovery	Recovery	✓	TSOT23-6L
BD9E104FJ	30	1	7 to 26	(V_{IN}×0.143) to (V_{IN}×0.5) (V_{IN}×0.143)≥1.0	0.57	250	Current	–	–	✓	✓	Recovery	Recovery	✓	SOP-J8
BD9E101FJ-LB	40	1	7 to 36	(V_{IN}×0.0855) to (V_{IN}×0.7) (V_{IN}×0.0855)≥1.0	0.57	1,500	Current	–	–	✓	–	Recovery	Recovery	✓	SOP-J8
BD9E100FJ-LB	40	1	7 to 36	(V_{IN}×0.15) to (V_{IN}×0.7) (V_{IN}×0.15)≥1.0	1	1,500	Current	–	–	✓	–	Recovery	Recovery	✓	SOP-J8
Nano BD9V101MUF-LB	70	1	16 to 60	0.8 to 5.5	1.9 to 2.3	2,500	Current	✓	–	✓	–	Recovery	Recovery	✓	VQFN24FV4040

*根据输入输出电压条件，会存在限制。

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耐压22V以上 1.2A～3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features: Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	Package
BD9E151ANUX	30	1.2	6 to 28	1.0 to (V_{IN}×0.7) or (V_{IN}–5.0)*2	0.6	800	Current	–	✓	–	–	Recovery	Recovery	✓	VSON008X2030
BD9701CP-V5	36	1.5	8 to 35	1.0 to (V_{IN}–3.0)	0.1	4,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO220CP-V5
BD9701FP	36	1.5	8 to 35	1.0 to (V_{IN}–3.0)	0.1	4,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO252-5
BD9703CP-V5	36	1.5	8 to 35	1.0 to (V_{IN}–3.0)	0.3	5,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO220CP-V5
BD9703FP	36	1.5	8 to 35	1.0 to (V_{IN}–3.0)	0.3	5,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO252-5
BD9870FPS	36	1.5	8 to 35	1.0 to (0.8×(V_{IN}-I_O×RON)	0.9	5,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO252S-5
BD9873CP-V5	36	1.5	8 to 35	1.0 to (0.8×(V_{IN}-I_O×RON)	0.11	5,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO220CP-V5
New BD9G201UEFJ-LB	45	1.5	4.5 to 42.0	0.8 to V_{IN}*1	0.3	1,200	Current	–	–	–	–	Recovery	Recovery	–	HTSOP-J8ES
New BD9E200FP4-Z	30	2	4.5 to 26.0	V_{IN}×0.1 or 0.7V to V_{IN}×0.8V	0.5	95	Current	–	–	✓	✓	Recovery	Recovery	✓	TSOT23-6L
New BD9E201FP4-Z	30	2	4.5 to 28.0	V_{IN}×0.1 or 0.7V to V_{IN}×0.8V	0.35	510	Current	–	–	✓	–	Recovery	Recovery	✓	TSOT23-6L
BD9778HFP	36	2	7 to 35	(V_{IN}×0.06) to V_{IN} (V_{IN}×0.06)≥1.0	0.05 to 0.50	3,000	Voltage	–	–	–	–	Recovery	Recovery	–	HRP7
BD9E301EFJ-LB	40	2.5	7 to 36	(V_{IN}×0.0855) to (V_{IN}×0.7) (V_{IN}×0.0855)≥1.0	0.57	1,500	Current	–	–	✓	–	Recovery	Recovery	✓	HTSOP-J8
BD9E300EFJ-LB	40	2.5	7 to 36	(V_{IN}×0.15) to (V_{IN}×0.7) (V_{IN}×0.15)≥1.0	1	1,500	Current	–	–	✓	–	Recovery	Recovery	✓	HTSOP-J8
BD9E302EFJ	30	3	7 to 28	(V_{IN}×0.11) to (V_{IN}×0.7) (V_{IN}×0.11)≥1.0	0.55	290	Current	–	–	✓	✓	Recovery	Recovery	✓	HTSOP-J8
BD9702CP-V5	36	3	8 to 35	1.0 to (V_{IN}–3.0)	0.11	4,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO220CP-V5
BD9874CP-V5	36	3	8 to 35	1.0 to (0.8×(V_{IN}-I_O×RON)	0.11	5,000	Voltage	–	–	–	–	Recovery	Recovery	–	TO220CP-V5
New BD9E304FP4-LBZ	39	3	4.5 to 36	V_{IN}×0.1V or 0.7V to V_{IN}×0.8V	0.3	45	Current	–	✓	✓	✓	Recovery	Recovery	✓	TSOT23-8L
BD9E303EFJ-LB	40	3	7 to 36	(V_{IN}×0.06) to (V_{IN}×0.8) (V_{IN}×0.06)≥1.0	0.3	2,200	Current	–	–	✓	–	Recovery	Recovery	✓	HTSOP-J8
BD9G341AEFJ	80	3	12 to 76	1.0 to (V_{IN}×0.9)*1	0.05 to 0.75	1,500	Current	–	–	–	–	Recovery	Recovery	✓	HTSOP-J8
BD9G341AEFJ-LB	80	3	12 to 76	1.0 to (V_{IN}×0.9)*1	0.05 to 0.75	1,500	Current	–	–	–	–	Recovery	Recovery	✓	HTSOP-J8

耐压22V以上 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features: Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	Package
BD95514MUV	30	4	4.5 to 28.0	0.7 to 5.0	0.2 to 1.0	1,300	H³Reg	✓	✓	✓	✓	Latch	Recovery	✓	VQFN032V5050
Nano BD9F500QUZ	39	3 or 5	4.5 to 36.0	0.6 to 14.0	0.6, 1.0, 2.2	20	On-time	✓	✓	✓	✓	Recovery	Recovery	✓	VMMP16LZ3030
New BD9G500UEFJ-LA	80	5	7 to 76	1.0 to (0.97×V_{IN})*1	0.1 to 0.65	750	Current	–	–	–	–	Recovery	Recovery	✓	HTSOP-J8
BD95500MUV	24	6	3 to 20	0.7 to 5.0	0.2 to 1.0	1,200	H³Reg	✓	✓	✓	✓	Latch	Recovery	✓	VQFN040V6060
BD9F800MUX	30	8	4.5 to 28.0	0.765 to 13.5*1	0.3, 0.6	850	On-time	✓	–	✓	–	Recovery	Recovery	–	VQFN11X3535A

双输出 降压型

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features: Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	Package
BD9151MUV	7	I_O1: 0.4 I_O2: 0.8	2.8 to 5.5	V_O1: 1.8 V_O2: 1.2	1	400	Current	✓	✓	Latch	Latch	–	VQFN020V4040
BD9152MUV	7	I_O1: 1.5 I_O2: 1.5	4.5 to 5.5	V_O1: 3.3 V_O2: 0.8 to 2.5	1	500	Current	✓	✓	Latch	Latch	–	VQFN020V4040
BD93291EFJ	30	I_O1: 2.5 I_O2: 1.5	8 to 26	V_O1: 5.0 V_O2: 0.8 to 4.0	1.5 to 2.5	600	H³Reg	✓	✓	Recovery	Recovery	–	HTSOP-J8

*1 根据输入输出电压条件，会存在限制。
*2 最大输出电压限制为(V_{IN}×0.7)、(V_{IN}-5.0)中数值较小的一方。

Nano Nano Pulse Control

Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano技术是罗姆充分实现节能和小型化的创新型电源技术。
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内置FET的开关稳压器(升压/升降压转换器)

单输出 升压/升降压转换器

Part No.	Input Voltage Maximum Rating (V)	Switch Current Limit (mA)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features: Boost	Buck-Boost	SEPIC	Inverting	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Package
BU33DV5G	6	10	1.75 to 4.50	3.3	0.1	250	Current	✓	–	–	–	✓	–	Recovery	✓	SSOP5
BU33DV7NUX	7	300	1.8 to 5.5	3.3	0.6	25	Current	✓	–	–	–	✓	✓	Recovery	✓	VSON010V3030
BU34DV7NUX	7	300	1.8 to 5.5	3.4	0.6	25	Current	✓	–	–	–	✓	✓	Recovery	✓	VSON010V3030
BU33UV7NUX	6.5	500	0.6 to 4.5	3.3	0.8	7	Current	✓	–	–	–	✓	✓	Recovery	✓	VSON010X3020
BD8152FVM	7	1,400	2.5 to 5.5	V_{IN} to 14	0.6/1.2	1,200	Current	✓	✓	✓	–	–	–	Recovery	✓	MSOP8
BD8158FVM	7	1,400	2.1 to 4.0	V_{IN} to 14	0.6/1.2	1,200	Current	✓	✓	✓	–	–	–	Recovery	✓	MSOP8
BD83070GWL	6	2,000	2.0 to 5.5	2.5 or 3.3	1.5	2.8	Current	–	✓	–	–	✓	✓	Recovery	✓	UCSP50L1C
BD8306MUV	7	2,000	1.8 to 5.5	1.8 to 5.2	0.3 to 2.0	500	Voltage	✓	✓	–	–	✓	–	Latch	✓	VQFN016V3030
BD8311NUV	14	2,500	3.5 to 11.0	4 to 11	1.2	600	Voltage	✓	–	–	–	–	–	Latch	✓	VSON010V3030
BD8314NUV	14	2,500	3 to 12	4 to 12	1.2	600	Voltage	✓	–	–	–	–	–	Latch	✓	VSON010V3030

双输出 升压/升降压转换器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features: Boost	Buck-Boost	SEPIC	Inverting	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Package
BD8317GWL	7	2.5 to 5.5	V_O1: –9.0 to –1.0 V_O2: V_{IN} to 18	0.8	500	Current	✓	–	–	✓	–	–	Latch	✓	UCSP50L1
BD8316GWL	7	2.5 to 5.5	V_O1: –9.0 to –1.0 V_O2: V_{IN} to 18	1.6	500	Current	✓	–	–	✓	–	–	Latch	✓	UCSP50L1
BD83854GWL	7	2.5 to 4.5	±5.4	1.0/0.5	2,500	Current	✓	–	–	✓	✓	–	Latch	✓	UCSP50L1C
BD83854MUV	7	2.5 to 4.5	±5.4	1.0/0.5	2,500	Current	✓	–	–	✓	✓	–	Latch	✓	VQFN20PV3535

外置FET的开关稳压器(降压控制器)

单输出 降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Supply Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features: Power Good	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Package
BD9305AFVM	20	4.2 to 18.0	–	1.25 to V_{IN}*	0.1 to 0.8	1,500	Voltage	–	–	–	–	–	SCP Latch	Recovery	MSOP8
BD63536FJ	32	3 to 30	–	1.25 to V_{IN}*	0.01 to 0.3	2,000	Voltage	–	–	–	–	–	Recovery	Recovery	SOP-J8
BD9845FV	36	3.6 to 35.0	–	1.0 to V_{IN}*	0.1 to 1.5	2,400	Voltage	–	–	✓	–	–	Recovery	Recovery	SSOP-B14
BD9611MUV	60	10 to 56	–	(V_{IN}×0.02) to (V_{IN}×0.97) (V_{IN}×0.02)≥0.8*	0.05 to 0.50	2,000	Voltage	–	✓	✓	✓	–	Recovery	Recovery	VQFN020V4040

*根据输入输出电压条件，会存在限制。

外置FET的开关稳压器(降压控制器)

双输出 降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Supply Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD95602MUV-LB	30	5.5 to 28.0	–	1.0 to 5.5	0.15 to 0.50	250	H³Reg	✓	–	✓	✓	✓	Latch	Recovery	VQFN032V5050
BD9848FV	36	3.6 to 35.0	–	1.0 to V_{IN}*	0.1 to 1.5	3,000	Voltage	–	–	✓	–	–	Recovery	Recovery	SSOP-B20

*根据输入输出电压条件，会存在限制。

外置FET的开关稳压器(升压/升降压控制器)

单输出 升压/升降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package
							Boost	Buck-Boost	Inverting	Buck	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Over-Current Protection	Thermal Protection	
BD8303MUV	15	2.7 to 14.0	1 to 12	0.2 to 1.0	650	Voltage	–	✓	–	–	–	–	✓	Latch	Recovery	VQFN016V3030
BD9306AFVM	20	4.2 to 18.0	V_{IN} to (V_{IN}/0.3)	0.1 to 0.8	1,500	Voltage	✓	–	–	–	–	–	–	Latch	Recovery	MSOP8
BD9615MUV-LB	62	3.5 to 60.0	V_{IN} to (V_{IN}/0.2)	0.1 to 2.5	2,000	Voltage	✓	–	–	–	✓	✓	–	Recovery	Recovery	VQFN16KV3030

双输出 升压/升降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package
							Boost	Buck-Boost	Inverting	Buck	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Over-Current Protection	Thermal Protection	
BD9851EFV	20	4 to 18	1 or more	0.01 to 0.3	2,500	Voltage	✓	–	✓	✓	–	✓	–	Latch	Recovery	HTSSOP-B20
BA9743AFV	36	3.6 to 35.0	2.505 or more	0.01 to 0.8	1,600	Voltage	✓	–	✓	✓	–	✓	–	Latch	Recovery	SSOP-B16
BA9744FV	36	2.5 to 35.0	1.222 or more	0.01 to 0.8	3,900	Voltage	✓	–	✓	✓	–	✓	–	Latch	Recovery	SSOP-B16
BA9741F	36	3.6 to 35.0	2.5 or more	0.01 to 0.8	1,600	Voltage	✓	–	✓	✓	–	✓	–	Latch	Recovery	SOP16
BA9741FS	36	3.6 to 35.0	2.5 or more	0.01 to 0.8	1,600	Voltage	✓	–	✓	✓	–	✓	–	Latch	Recovery	SSOP-A16

支持车载的开关稳压器

单输出 初级 FET内置 降压转换器

	Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
Nano	BD9V100MUF-C	Nch (600mΩ)	Nch (400mΩ)	70	1	16 to 60	Adj. (0.8 to 5.5)	±2.0	2,500	1.9 to 2.3	Current	✓	–	–	✓	–	✓	–	−40 to +125	VQFN24FV4040	FSs	YES
Nano	BD9P105EFV-C	210mΩ	140mΩ	42	1	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	BD9P105MUF-C	200mΩ	130mΩ	42	1	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	BD9P108MUF-C	200mΩ	130mΩ	42	1	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
Nano	BD9P135EFV-C	210mΩ	140mΩ	42	1	3.5 to 40.0	3.3	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	BD9P135MUF-C	200mΩ	130mΩ	42	1	3.5 to 40.0	3.3	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	BD9P155EFV-C	210mΩ	140mΩ	42	1	3.5 to 40.0	5	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	BD9P155MUF-C	200mΩ	130mΩ	42	1	3.5 to 40.0	5	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
New	BD90610UEFJ-C	Pch (160mΩ)	–	42	1.25	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	–	✓	–	–	–	–	–	−40 to +125	HTSOP-J8	FSs	YES
	BD9G201EFJ-M	Nch (140mΩ)	–	45	1.5	4.5 to 42.0	0.8 to V_{IN}*2	±2.0	1,200	0.3	Current	–	✓	–	–	–	✓	–	−40 to +105	HTSOP-J8ES	FSs	YES
Nano	BD8P250MUF-C	Nch (110mΩ)	Nch (110mΩ)	42	2	3.5 to 36.0	5.0	±2.0	8	2.2	Current	✓	–	–	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
Nano	BD9P205EFV-C	150mΩ	100mΩ	42	2	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	BD9P205MUF-C	140mΩ	90mΩ	42	2	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	BD9P208MUF-C	140mΩ	90mΩ	42	2	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
Nano	BD9P235EFV-C	150mΩ	100mΩ	42	2	3.5 to 40.0	3.3	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	BD9P235MUF-C	140mΩ	90mΩ	42	2	3.5 to 40.0	3.3	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	BD9P255EFV-C	150mΩ	100mΩ	42	2	3.5 to 40.0	5	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	BD9P255MUF-C	140mΩ	90mΩ	42	2	3.5 to 40.0	5	±1.75	10	2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	BD9P233MUF-C	Pch (190mΩ)	Nch (120mΩ)	42	2	3 to 36	3.3	±2.0	26	0.2 to 2.4	Current	✓	✓	✓	✓	✓	✓	✓	−40 to +125	VQFN32FAV050	FSs	YES
	BD99010EFV-M	Pch (170mΩ)	Nch (130mΩ)	42	2	3.5 to 36.0	3.3	±2.0	22	0.2 to 0.5	Current	–	–	–	✓	✓	✓	–	−40 to +105	HTSSOP-B24	FSs	YES
	BD99011EFV-M	Pch (170mΩ)	Nch (130mΩ)	42	2	3.5 to 36.0	5.0	±2.0	22	0.2 to 0.5	Current	–	–	–	✓	✓	✓	–	−40 to +105	HTSSOP-B24	FSs	YES
	BD9060F-C	Pch (300mΩ)	–	42	2	5 to 35	Adj. (0.8 to V_{IN})	±2.0	3,700	0.05 to 0.5	Voltage	–	✓	–	–	–	–	–	−40 to +125	SOP8	FSs	YES
	BD9060HFP-C	Pch (300mΩ)	–	42	2	5 to 35	Adj. (0.8 to V_{IN})	±2.0	3,700	0.05 to 0.5	Voltage	–	✓	–	–	–	–	–	−40 to +125	HRP7	FSs	YES
New	BD90620UEFJ-C	Pch (160mΩ)	–	42	2.5	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	–	✓	–	–	–	–	–	−40 to +125	HTSOP-J8	FSs	YES
	BD90620HFP-C	Pch (160mΩ)	–	42	2.5	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	–	✓	–	–	–	–	–	−40 to +125	HRP7	FSs	YES
Nano	BD9P305EFV-C	135mΩ	90mΩ	42	3	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	0.44/2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	BD9P308MUF-C	125mΩ	80mΩ	42	3	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	10	0.44/2.2	Current	✓	✓	–	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
New	BD9G401UEFJ-M	Nch (140mΩ)	–	45	3.5	4.5 to 42.0	0.8 to V_{IN}*2	±2.0	1,200	0.3	Current	–	✓	–	–	–	✓	–	−40 to +105	HTSOP-J8ES	FSs	YES
New	BD90640UEFJ-C	Pch (160mΩ)	–	42	4	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	–	✓	–	–	–	–	–	−40 to +125	HTSOP-J8	FSs	YES
	BD90640HFP-C	Pch (160mΩ)	–	42	4	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	–	✓	–	–	–	–	–	−40 to +125	HRP7	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。
*2 根据输入输出电压条件，会存在限制。

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单输出 次级 FET内置 降压转换器

Part No.	Output FET Upper (Typ)	Output FET Bottom (Typ)	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	QuiCur™ technology	Features: Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Output Discharge	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD9S000NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	350	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
BD9SD11NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	1.15	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	–	−40 to +125	VSON008X2020	–	YES
BD9S012NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	1.1	±1.5	350	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
BD9S100NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	350	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
BD9S110NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	1.2	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
BD9S111NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	1.8	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
New BD9S109NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	1	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
New BD9S209NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
BD9S201NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	−40 to +125	VSON008X2020	FSs	YES
BD9S231NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	–	−40 to +125	VSON008X2020	FSs	YES
BD9S200MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN}×0.8)	±1.5	650	2.2	Current	–	✓	✓	✓	✓	✓	✓	–	−40 to +125	VQFN16FV3030	FSs	YES
BD9S300MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	3	2.7 to 5.5	Adj. (0.8 to V_{IN}×0.8)	±1.5	650	2.2	Current	–	✓	✓	✓	✓	✓	✓	–	−40 to +125	VQFN16FV3030	FSs	YES
BD9S400MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	4	2.7 to 5.5	Adj. (0.8 to V_{IN}×0.8)	±1.5	650	2.2	Current	–	✓	✓	✓	✓	✓	✓	–	−40 to +125	VQFN16FV3030	FSs	YES
Nano BD9S402MUF-C	Pch (60mΩ)	Nch (35mΩ)	7	4	2.7 to 5.5	Adj. (0.6 to V_{IN}×0.75)	±1.0	1,800	2.2	Current	✓	✓	–	✓	✓	–	✓	✓	−40 to +125	VQFN16FV3030	FSs	YES

单输出 初级 FET内置 升降压转换器(Quick Buck Booster™)

Part No.	Output FET Upper (Typ)	Output FET Bottom (Typ)	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features: Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8P250MUF-C + BD90302NUF-C	Nch (110mΩ)	Nch (110mΩ)	42	0.8	2.7 to 36	5.0	±2.0	8	2.2	Current	✓	–	–	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	–+FSs	YES
	Pch (55mΩ)	Nch (65mΩ)	7					65											VSON10FV3030		YES

双输出 初级 FET外置 降压控制器

Part No.	Output FET Upper (Typ)	Output FET Bottom (Typ)	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features: Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum	Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
BD9015KV-M	Ext. Nch	Ext. Nch	35	–	3.9 to 30.0	Adj. (0.8 to 10)	±1.5	4,000	0.25 to 0.55	Current	✓	✓	✓	✓	–	✓*2	–	−40 to +105	VQFP48C	YES
BD9016KV-M	Ext. Nch	Ext. Nch	35	–	3.9 to 30.0	Adj. (0.8 to 10)	±1.5	4,000	0.25 to 0.55	Current	✓	✓	✓	✓	–	✓*3	–	−40 to +105	VQFP48C	YES

单输出 初级 FET外置 升降压控制器

Part No.	Output FET Upper (Typ)	Output FET Bottom (Typ)	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features: Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD9035AEFV-C	Ext. Pch	Ext. Nch	40	–	3.8 to 30.0	Adj.	±1.5	7,000	0.1 to 0.6	Voltage	✓	✓	✓	–	–	✓	–	−40 to +125	HTSSOP-B24	FSs	YES

◎Quick Buck Booster™ 是ROHM Co., Ltd.的商标或注册商标。
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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。
*2 过电压检测时下侧FET OFF
*3 过电压检测时下侧FET ON

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复合电源IC(PMIC)

车载音响用系统电源	P.48	面板用系统电源	P.48
灰度等级电压生成IC	P.49	数码相机/数码摄像机用系统电源	P.49
车载系统电源	P.49	工业设备/消费电子用系统电源	P.50

复合电源IC(PMIC)

车载音响用系统电源

汽车音响用系统电源IC

Part No.	Supply Voltage (V)	Function		Reference Voltage (V)	Output Current (A)	Protection Circuit		Input I/F	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						Over Current	Temperature				
BD49101AEFS-M*2/ BD49101ARFS-M*3	5.5 to 25.0	Buck DC-DC1	Controller	0.8	–	Current Limit with Short Current Protection Circuit	✓	I²C	HTSSOP-A44 (EXP-PAD down HTSSOP-A44 package) HTSSOP-A44R (EXP-PAD up HTSSOP-A44R package)	FSs/FSs	YES
		Buck DC-DC2	Low Power Standby REG	0.8	1.0						
		REG1	Secondly	0.6	0.5	Foldback					
		REG2	–	0.8	0.1						
		REG3	Secondly	0.8	0.3						
		REG4	Secondly, Voltage Calibration	0.8	1.5 (Variable)						
		REG5	–	0.8	0.1						
		High Side Switch	–	–	0.5						
		+B Detection Circuit	Over/Under Current Detection	–	–	–					

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。
*2 BD49101AEFS-M：背面散热型HTSSOP-A44封装
*3 BD49101ARFS-M：表面散热型HTSSOP-A44R封装

面板用系统电源

单通道源极电压输出电源IC＋灰阶缓冲放大器

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Operating Frequency (MHz)	Output for Source Voltage (V)	Output for Logic Voltage (V)	Output for Gate Voltage (V)	Start up Sequence Circuit	V COM (ch)	Package
BD8163EFV	2.1 to 6.0	−40 to +125	1.1	up to 18.0	2.5	Variable	✓	–	HTSSOP-B24
BD9862MUV	1.8 to 5.5	−40 to +85	0.7 to 1.4	up to 15.0	–	Variable	✓	–	VQFN024V4040

面向中小型面板的多通道系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Operating Frequency (MHz)	Output for Source Voltage (V)	Output for Logic Voltage 1	Output for Logic Voltage 2	Output for Gate Voltage	Start up Sequence Circuit	V COM (ch)	Package
BD8166EFV	6.0 to 18.0	−40 to +85	0.5	up to 18.0	Variable	–	Variable	✓	1	HTSSOP-B40
BD8165MUV	4.2 to 14.0	−40 to +105	0.65	up to 18.0	Variable	Variable	Variable	✓	1	VQFN048V7070
BM81110MUW	8.6 to 14.7	−40 to +85	0.75/1.0	up to 19.8	Variable	Variable	Variable	✓	–	VQFN40W6060A

车载面板用系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Operating Frequency (MHz)	Output for Source Voltage1 (V)	Output for Source Voltage2 (V)	Output for Logic Voltage (V)	Output for Gate Voltage (V)	Start up Sequence Circuit	V COM (ch)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD81842MUV-M	2.0 to 5.5	−40 to +105	2.1	up to 18.0	–	–	Variable	✓	1	VQFN24SV4040	FSs	YES
BM81810MUV-M	2.6 to 5.5	−40 to +105	0.525/1.05/2.1	5.0 to 17.0 0.1V step	–	0.9 to 3.4 50mV step	8.0 to 35.0 0.2V step/ −14.0 to −4.0 0.1V step	✓	1	VQFN32SV5050	FSs	YES
BM81810MUF-M*2										VQFN32FBV050	FSs	
BD81870EFV-M	2.5 to 5.5	−40 to +105	2.1	up to 18.0	V_{DD}−13.0 to −1.0	–	–	✓	–	HTSSOP-B20	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。
*2 BM81810MUF-M与BM81810MUV-M的区别在于BM81810MUF-M支持Wettable flank。

灰度等级电压生成IC

内置DAC的高精度灰度电压生成IC

Part No.	Supply Voltage (V)		Operating Temperature (°C)	Clock Frequency (MHz)	DAC (bit)	Serial I/F	Auto Data Read	V COM (ch)	Buffer for Gamma (ch)	Package
	Gamma Collection Input	Logic								
BD8149MUV	10 to 18	2.1 to 3.6	−25 to +85	0.4	10	I²C BUS	Built-in	—	12	VQFN032V5050

车载面板用内置DAC的高精度灰度电压生成IC

Part No.	Supply Voltage (V)		Operating Temperature (°C)	Clock Frequency (MHz)	DAC (bit)	Serial I/F	Auto Data Read	V COM (ch)	Buffer for Gamma (ch)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Gamma Collection Input	Logic										
BD81849MUV-C	10 to 18	2.1 to 3.6	−40 to +105	0.4	10	I²C BUS	Built-in	—	12	VQFN32SV5050	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

数码相机/数码摄像机用系统电源

FET内置型(5V耐压)系统开关稳压器IC

Part No.	ch	Operating Frequency (MHz)	Supply Voltage (V)	Reference Voltage (V)	Reference Voltage Precision (%)	Topology					Built-in FET (ch)	Synchronous Rectifier (ch)	Load Switch (ch)	Package
						Step up (ch)	Step Down (ch)	Step up/down (ch)	Inverting (ch)	Buck-Boost (ch)				
BD9355MWV	7	2.0/1.0	1.5 to 5.5	0.8	±1.25	3	2	—	1	1	7	3	1	UQFN036V5050
				1.0	±1.0									

数码摄像机/数码单反相机用系统开关稳压器IC

Part No.	ch	Operating Frequency (MHz)	Supply Voltage (V)	Reference Voltage (V)	Reference Voltage Precision (%)	Step up (ch)	Step Down (ch)	Buck-Boost (ch)	Inverting/ Stepdown (ch)	Built-in FET (ch)	Synchronous Rectifier (ch)	Load Switch (ch)	Package (mm)
BD9865MWV	4	0.6 to 1.5	4 to 14	1.0	±1.0	—	2	1	1	4	3	—	UQFN040V5050
				0.8	±1.25								
BD9866GUL	4	0.6 to 1.5	4 to 14	0.6	±1.66	—	3	1	—	4	4	—	VCSP50L3 3.75×3.75, H=Max 0.55
				0.8	±1.25								

闪光灯充电控制IC

Part No.	Supply Voltage (V_{CC}) (V)	Peak Current (A)	Full Charge Detection Voltage (V)	100nsec pulse AC Full Charge Detection Voltage (V)	Full Terminal Output	Power Transistor Saturation Voltage I_{SW}=1A (V)	IGBTOUTN (mA)	IGBTOUTP (mA)	Package
BD4233NUX	2.5 to 5.5	0.5 to 2.0	1±1.1%	1.0−1.1% to ±1.6%	Nch Open drain	0.4	60	140	VSON010X3020
BD4234NUX	2.5 to 5.5	0.5 to 2.0	1±1.1%	1.0−1.1% to ±1.6%	Nch Open drain	0.4	30	140	VSON010X3020

车载系统电源

2ch 车载系统电源

Part No.	Supply Voltage (V)	Operating Frequency (kHz)	Operating Temperature (°C)	Sequence	Output Voltage Precision (%)	Output		Function					Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						ch	V_{OUT}/Max I_{OUT}	Over Current Protection	TSD	Under/Over Voltage Detection	Reset	WDT			
BD39012EFV-C	4 to 36 (Rating 45V)	200 to 600	−40 to +125	External Control EN1: DC-DC EN2: LDO	±2	1ch (DC-DC)	Synchronous Buck DC-DC Converter (V_{OUT} variable, 1A)	✓	✓	✓	—	WINDOW WDT	HTSSOP-B24	FSs	YES
						2ch (LDO)	LDO (5V, 0.4A)				✓				

3ch 车载系统电源(ADAS用)

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Operating Temperature (°C)	Output Voltage Precision (%)	DC-DC Output				Function			Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					Item	DC-DC1 Buck	DC-DC2 Buck	DC-DC3 Buck	Reset	Power Good	External LDO CTRL				
BD86852MUF-C	4 to 18	2.2	−40 to +125	2	Output Voltege (V)	3.3 or 3.9	1.1 or 1.2	1.8	✓	✓	✓	OVP OCP UVLO TSD	VQFN24FV4040	FSs	YES
					Output Current (A)	2	1	1							

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车载系统电源

4ch 车载系统电源(ADAS用)

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Operating Temperature (°C)	Output Voltage Precision (%)	DC-DC Output							Protection Circuit	Package	Automotive Grade AEC-Q100
					Item	DC-DC1 Buck	DC-DC2 Buck	DC-DC3 Buck	DC-DC4 Boost	Reset	WDT			
BD39031MUF-C	4 to 28	2.2	−40 to +125	±1.5 (DC-DC4 ±2.0)	Output Voltage (V)	3.3	1.2	0.8 to 2.5	5	✓	WINDOW WDT	OVP, OCP, SCP, TSD, T-Warning	VQFN40FV6060	YES
					Output Current (A)	Ext.FET	2.5	2.5	0.5					

通用车载系统电源(支持Renesas [R-Car] SoC系列)

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Output Voltage Precision (%)	Item	DC-DC Output				LDO	DC (SW)	Reset	WDT	Monitoring Function	Protection Circuit	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					DC-DC1 Boost	DC-DC2 Buck	DC-DC3 Buck	DC-DC4 Buck										
BD9573MUF-M	3 to 3.6	2.25	±1.8	Output Voltage (V)	5	1.8	1.35 or 1.5	1.03	2.5	VIN7	✓	WINDOW WDT	–	UVLO, SCP, OCP, OVP, UVP, TSD	−40 to +105	VQFN56FV8080	FSs	YES
				Output Current (A)	0.2	1	2	5.2	0.15	0.3								
BD9576MUF-C	3 to 3.6	2.25	±1.8	Output Voltage (V)	5	1.8	1.35 or 1.5	1.03	2.5	VIN7	✓	WINDOW WDT	OVD/UVD TW	UVLO, SCP, OCP, OVP, UVP, TSD	−40 to +125	VQFN56FV8080	FSm	YES
				Output Current (A)	0.2	1	2	5.2	0.15	0.3								

车载摄像头用PMIC

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Item	DC-DC Output			LDO	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
				CH1	CH2	CH3	CH4				
New BD868A0MUF-C	4 to 18	2.25	Output Voltage (V)	3.7V	1.1V	1.8V	3.3V	−40 to +125	VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				
☆BD868B0MUF-C			Output Voltage (V)	3.7V	1.1V	1.8V	3.3V		VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	0.4A	0.3A				
New BD868C0MUF-C			Output Voltage (V)	3.3V	1.2V	1.8V	2.8V		VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				
New BD868C1MUF-C			Output Voltage (V)	3.8V	1.1V	1.8V	3.3V		VQFN20FV3535	FSs	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				
New BD868D0MUF-C			Output Voltage (V)	3.3V	1.2V	1.8V	2.8V		VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				

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☆: 开发中

工业设备/消费电子用系统电源

Intel® Atom™ E3800系列平台用电源管理IC

Part No.	Supply Voltage (V)	Item	DC-DC Output							SW	LDO output								I/F	Protection Circuit	Package (mm)
			DC-DC1 V1P0A	DC-DC2 V1P0S	DC-DC3 V1P8A	DC-DC4 VDDQ	DC-DC5 V1P05S	DC-DC6 VCC	DC-DC7 VNN	V1P8S	LDO1 VRTC	LDO2 V3P3A	LDO3 V3P3S	LDO4 V1P24A	LDO5 VSDIO	LDO6 V1P24S	LDO7 VTT	LDO8 VSFR			
BD9596BMWV	3.5 to 5.5	Output Voltage (V)	1.0	1.0	1.8	1.2 to 1.6	1.05	0.5 to 1.2	0.5 to 1.2	1.8	3.3	3.3	3.3	1.24	1.8 or 3.3	1.24	VDDQ/2	1.35	IMVP7	UVLO, TSD, SCP, OVP	UQFN88MV0100 10×10×1.0
		Output Current (mA)	700	2,600	1,800	4,500	1,300	13,000	13,000	800	120	100	500	50	20	50	530	500			

NXP "i.MX应用处理器系列" 用电源管理IC

Part No.	Correspondance	Item	DC-DC Output								LDO Output									White LED Driver	Lithiumion Charging Control	Coulomb Counter	RTC	GPO (ch)	I²C I/F	Package
			BUCK1	BUCK2	BUCK3	BUCK4	BUCK5	BUCK6	BUCK7	BUCK8	LDO1	LDO2	LDO3	LDO4	LDO5	LDO6	LDO7	LDOSNVS	LDOLPSR	LDODVREF							
BD71815AGW	i.MX 7Solo i.MX 7Dual	Output Voltage (V)	0.8 to 2.0	0.8 to 2.0	1.2 to 2.7	1.10 to 1.85	1.8 to 3.3	–	–	–	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	–	–	3	1.8	0.5x DVREFIN	✓	✓	✓	✓	1	✓	UCSP55M4C
		Output Current (mA)	800	1,000	500	1,000	1,000				100	100	50	400	250			25	100	10							
BD71837AMWV	System PMIC for i.MX 8M Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.35	3.0 to 3.3	1.605 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	–	–	–	–	–	–	–	–	✓	UQFN68CV8080
		Output Current (mA)	3,600	4,000	2,100	1,000	2,500	3,000	1,500	3,000	10	10	300	250	300	300	150										
BD71847AMWV	System PMIC for i.MX 8M Mini Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	–	–	0.7 to 1.35	2.6 to 3.3	1.605 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	0.8 to 3.3	0.9 to 1.8	–	–	–	–	–	–	–	–	–	✓	UQFN56BV7070
		Output Current (mA)	3,000	3,000			3,000	3,000	1,500	3,000	10	10	300	250	300	300											
BD71850MWV	System PMIC for i.MX 8M Nano Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	–	–	0.7 to 1.35	2.6 to 3.3	1.605 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	0.8 to 3.3	0.9 to 1.8	–	–	–	–	–	–	–	–	–	✓	UQFN56BV7070
		Output Current (mA)	3,000	3,000			3,000	3,000	1,500	3,000	10	10	300	250	300	300											

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非绝缘型 AC-DC转换器

表面贴装SOP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency reduction function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package
BM2P109TF	10.0	650	PWM	100	✓	75	9.5	0.45	1.4	3	SOP8
BM2P104QF					–		4.0	0.80	1.6		SOP8
BM2P129TF	12.0				✓		9.5	0.45	1.4		SOP8
BM2P139TF	13.0										SOP8
BM2P135TF							4.5				SOP8
BM2P134QF					–		4.0	0.80	1.6		SOP8
BM2P159PF	14.2				✓		9.5	0.30	0.95		SOP8
BM2P159T1F	15.0							0.45	1.4		SOP8
BM2P189TF	18.0										SOP8
BM2P209TF	20.0										SOP8
BM2P249TF	24.8										SOP8

表面贴装SOP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency reduction function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package
BM2P107QKF	10.0	800	PWM	100	–	75	7.5	0.80	1.6	3	SOP8
BM2P137TKF	13.0				✓			0.45	1.4		SOP8
BM2P137QKF					–			0.80	1.6		SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package
New BM2PAA1Y-Z	2.0	650	PWM	65	✓	40	1.5	1.76	1.76	3	DIP7K
New BM2PAB1Y-Z				25	–			1.76	1.76		DIP7K
New BM2PDA1Y-Z				65	✓			0.88	0.93		DIP7K
New BM2PDB1Y-Z				25	–			0.88	0.93		DIP7K
BM2P101W-Z	10.0			65	✓			1.46	2.55		DIP7K
BM2P101X-Z								2.00	3.5		DIP7K
BM2P104Q-Z				100	–	75	4.0	0.80	1.6		DIP7K
BM2P121W-Z	12.0			65	✓	40	1.5	1.46	2.55		DIP7K
BM2P121X-Z								2.00	3.5		DIP7K
BM2P121XH-Z*								2.00	3.5		DIP7K
BM2P131W-Z	13.0							1.46	2.55		DIP7K
BM2P131X-Z								2.00	3.5		DIP7K
BM2P134Q-Z				100	–	75	4.0	0.80	1.6		DIP7K
BM2P141W-Z	14.0			65	✓	40	1.5	1.46	2.55		DIP7K
BM2P141X-Z								2.00	3.5		DIP7K
BM2P151W-Z	15.0							1.46	2.55		DIP7K
BM2P151X-Z								2.00	3.5		DIP7K
BM2P151S-Z								2.30	4.025		DIP7K
BM2P161W-Z	16.8						1.9	1.46	4.015		DIP7K
BM2P161X-Z							1.5	2.00	3.5		DIP7K
BM2P181W-Z	18.0							1.46	2.55		DIP7K
BM2P181X-Z								2.00	3.5		DIP7K
BM2P201W-Z	20.0							1.46	2.55		DIP7K
BM2P201X-Z								2.00	3.5		DIP7K
BM2P241W-Z	24.8			65	✓	40		1.46	2.55		DIP7K
BM2P241X-Z								2.00	3.5		DIP7K
BM2P249Q-Z				100	–		9.5	0.80	2.2		DIP7K

高散热DIP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package
BM2P107QK-Z	10.0	800	PWM	100	–	75	7.5	0.80	1.6	3	DIP7K
BM2P137QK-Z	13.0										DIP7K

*TSD温度变更

绝缘/非绝缘型 AC-DC转换器

表面贴装SOP封装 内置730V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0363F	8.9 to 26.0	730	PWM	25	–	75	3.0	4.0	0.7	0.4	Extrenal	3.0	–	–	Auto Restart	SOP8
BM2P064EF				65	✓				1.05				✓			SOP8
BM2P104EF				100						0.3						SOP8
BM2P134EF				130												SOP8
New BM2P060LF-Z	11 to 60			65			0.7	21.0	✓	✓		15			–	SOP20A
New BM2P061LF-Z							1.0	12.0								SOP20A
BM2P060MF-Z							0.7	21.0								SOP20A
BM2P061MF-Z							1.0	12.0								SOP20A
BM2P063MF-Z							3.0	4.0								SOP20A

表面贴装SOP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0363KF	8.9 to 26.0	800	PWM	25	–	75	3.0	–	0.7	0.4	Extrenal	3.0	–	–	Auto Restart	SOP8
BM2P074KF	10.2 to 26.0			65	✓		6.7	2.0	–							SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0391	8.9 to 26.0	650	PWM	100	✓	75	2.4	5.2	–	0.4	Extrenal	6	✓ (adjustable)	–	Auto Restart	DIP7K

绝缘/非绝缘型　AC-DC转换器

高散热DIP封装 内置730V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P061E-Z	8.9 to 26.0	730	PWM	65	✓	75	0.955	12.0	1.0	0.4	Extrenal	5.5	✓ (adjustable)	–	Auto Restart	DIP7AK
BM2P061H-Z	10.9 to 30.0													Auto Restart		DIP7AK
BM2P0151-Z	8.9 to 26.0						1.0		–			3.0	–	–	Latch	DIP7K
BM2P0161-Z															Auto Restart	DIP7K
BM2P0361-Z							3.0	4.0								DIP7K
BM2P0362-Z								–								DIP7K
BM2P064E-Z								4.0	1.0			5.5	✓ (adjustable)	Auto Restart		DIP7AK
BM2P101E-Z				100			0.955	12.0		0.3						DIP7AK
BM2P101H-Z	10.9 to 30.0															DIP7AK
New BM2P10A1J-Z	8.9 to 26.0					80	1.0		1.23	0.78		3.0				DIP7K
New BM2P10A3J-Z							3.0	4.0								DIP7K
New BM2P10B1J-Z							1.0	12.0								DIP7K
New BM2P10B3J-Z							3.0	4.0								DIP7K
BM2P104E-Z						75			1.0	0.3		5.5		–		DIP7AK
BM2P131E-Z				130			0.955	12.0								DIP7AK
BM2P131H-Z	10.9 to 30.0													Auto Restart		DIP7AK
BM2P134E-Z	8.9 to 26.0						3.0	4.0						–		DIP7AK

高散热DIP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0161K-Z	8.9 to 26.0	800	PWM	65	✓	75	1.6	9.0	–	0.4V	Extrenal	3.0	–	–	Auto Restart	DIP7K
BM2P0361K-Z							3.5	4.8								DIP7K
BM2P061EK-LBZ	10.9 to 30.0						1.6	20.0	1V			5.5	✓ (adjustable)			DIP7AK
BM2P061FK-LBZ								9.0								DIP7AK
BM2P061HK-LBZ														Auto Restart		DIP7AK
BM2P063EK-LBZ							3.5	4.8	1.05V				✓	–		DIP7AK
BM2P101EK-LBZ				100			1.6	20.0	1V	0.3V			✓ (adjustable)			DIP7AK
BM2P101FK-LBZ								9.0								DIP7AK
BM2P101HK-LBZ														Auto Restart		DIP7AK
BM2P103EK-LBZ							3.5	4.8	1.05V	0.4V			✓	–		DIP7AK
BM2P131FK-LBZ	10.9 to 26.0			130			1.6	9.0	1V	0.3V			✓ (adjustable)			DIP7AK
BM2P131HK-LBZ	10.9 to 30.0													Auto Restart		DIP7AK
BM2P133EK-LBZ	10.9 to 26.0						3.5	4.8	1.05V	0.4V			✓	–		DIP7AK
BM2P26CK-Z	11.9 to 25.5			100			6.0	3.0	Current Limiter×2A	0.13A	Built-in		✓ (fixed)		Latch	DIP7K

大功率TO220封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (A)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0163T-Z	8.9 to 26.0	650	PWM	65	✓	75	1.4	10.4	–	0.4	Extrenal	5.0	–	–	Auto Restart	TO220-7M

绝缘型　AC-DC转换器IC

内置FET　AC-DC转换器IC

表面贴装SOP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (A)	Overcurrent Limiter (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Burst Frequency Adjustment	Package
BM2P051F	8.9 to 26.0	650	PWM	65	✓	75	4.0	2.6	–	0.4	Extrenal	3.0	✓ (adjustable)	Auto Restart	Latch	–	SOP8
BM2P052F															Auto Restart	–	SOP8
BM2P053F													–	–	Latch	–	SOP8
BM2P054F															Auto Restart	–	SOP8
BM2P091F							8.5	1.3					✓ (adjustable)	Auto Restart	Latch	–	SOP8
BM2P092F															Auto Restart	–	SOP8
BM2P093F													–	–	Latch	–	SOP8
BM2P094F															Auto Restart	–	SOP8
BM2P095F															Latch	✓	SOP8
BM2PA96F					–										Auto Restart	✓	SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (A)	Overcurrent Limiter (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P011	8.9 to 26.0	650	PWM	65	✓	75	1.4	10.4	–	0.4	Extrenal	3	✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P012															Auto Restart	DIP7K
BM2P013													–	–	Latch	DIP7K
BM2P014															Auto Restart	DIP7K
BM2P031							2.4	5.2					✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P032															Auto Restart	DIP7K
BM2P033													–	–	Latch	DIP7K
BM2P034															Auto Restart	DIP7K
BM2P051							4.0	2.6					✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P052															Auto Restart	DIP7K
BM2P053													–	–	Latch	DIP7K
BM2P054															Auto Restart	DIP7K
BM2P091							8.5	1.3					✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P092															Auto Restart	DIP7K
BM2P093													–	–	Latch	DIP7K
BM2P094															Auto Restart	DIP7K

内置SiC MOSFET的　AC-DC转换器IC

大功率TO220封装 内置1,700V耐压SiC MOSFET

Part No.	Output Voltage (V)	SiC MOSFET V_{DS} (Max) (V)	Control Method	Maximum Frequency (kHz)	ON Resistance (Ω)	Dynamic Over Current Protection (A)	OCP Exchange Function	V_{CC} OVP	BR UVLO	FB OLP Protection	ZT OVF Protection	Package
BM2SCQ121T-LBZ	15 to 27.5	1,700	QR	120	1.12	–	✓	Latch	–	Auto Restart	Latch	TO220-6M
BM2SCQ122T-LBZ										Latch		TO220-6M
BM2SCQ123T-LBZ								Auto Restart		Auto Restart		TO220-6M
BM2SCQ124T-LBZ										Latch		TO220-6M

大功率TO263封装 内置1,700V耐压SiC MOSFET

Part No.	Output Voltage (V)	SiC MOSFET V_{DS} (Max) (V)	Control Method	Maximum Frequency (kHz)	ON Resistance (Ω)	Dynamic Over Current Protection (A)	OCP Exchange Function	V_{CC} OVP	BR UVLO	FB OLP Protection	ZT OVF Protection	Package
BM2SC121FP2-LBZ	15 to 27.5	1,700	QR	120	1.12	–	✓	Latch	–	Auto Restart	Latch	TO263-7L
BM2SC122FP2-LBZ										Latch		TO263-7L
BM2SC123FP2-LBZ								Auto Restart		Auto Restart		TO263-7L
BM2SC124FP2-LBZ										Latch		TO263-7L

绝缘型　FET外置　AC-DC控制器IC

PWM控制型

Part No.	Output Voltage (V)	Control Method	Switching Frequency (kHz)	START-UP Circuit	Frequency Reduction Mode	Max Duty (%)	AC Voltage Correction	V_{CC} Recharge	Start-up Current (mA)	BR UVLO	V_{CC} OVP	FBOLP	Package
BM1P061FJ	8.9 to 26.0	PWM	65	✓	✓	75	✓	✓	3.0	✓	Auto Restart	Auto Restart	SOP-J8
BM1P062FJ											Latch		SOP-J8
BM1P065FJ								–		–	Auto Restart		SOP-J8
BM1P066FJ											Latch		SOP-J8
BM1P067FJ											Auto Restart		SOP-J8
BM1P068FJ											Latch		SOP-J8
BM1P101FJ			100					✓		✓	Auto Restart		SOP-J8
BM1P102FJ											Latch		SOP-J8
BM1P105FJ								–			Auto Restart		SOP-J8
BM1P107FJ										–			SOP-J8
BM1P10CFJ	9.3 to 55.0							✓	5.5	✓	–	Latch	SOP-J7S
BD7672BG	8.5 to 25.0		65	–	–		–	–	–	–	Latch	Auto Restart	SSOP6
BD7673AG												Latch	SSOP6
BD7679G											Auto Restart	Auto Restart	SSOP6

QR控制型

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	Maximum Frequency (kHz)	Frequency Reduction Mode	AC Voltage Correction	FB OLP Protection	V_{CC} OVP	ZT OVP	Package
BM1Q002FJ	8.9 to 26.0	QR	✓	3.0	120	✓	✓	Auto Restart	Latch	Latch	SOP-J8
BM1Q011FJ									Auto Restart	–	SOP-J7S
BM1Q021FJ										Auto Restart	SOP-J8
BM1Q104FJ	14.0 to 30.0				–		–		–	Latch	SOP-J8

QR控制型 支持SiC驱动(工业设备用)

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	Maximum Frequency (kHz)	Frequency Reduction Mode	AC Voltage Correction	FB OLP Protection	V_{CC} OVP	ZT OVP	Package
BD7682FJ-LB	15.0 to 27.5	QR	–	–	120	✓	✓	Auto Restart	Latch	Latch	SOP-J8
BD7683FJ-LB								Latch			SOP-J8
BD7684FJ-LB								Auto Restart	Auto Restart		SOP-J8
BD7685FJ-LB								Latch			SOP-J8

QR控制型＋PFC内置型

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	QR Maximum Frequency (kHz)	PFC Maximum Frequency (kHz)	QR Frequency Reduction	PFC Frequency Reduction	PFC Output Voltage Switching	BR UVLO	V_{CC} OVP	ZT OVP	Package
BM1C101F	8.9 to 26.0	PFC+QR	✓	6.5	120	400	✓	✓	✓	✓	Auto Restart	Latch	SOP18
BM1C102F									–				SOP18

BCM型　PFC控制器IC

单级PFC

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Zero Detection Method	OVP Detection	PFC Maximum Frequency (kHz)	Over Shoot Reduction Function	Brown Out	V_{CC} Discharge	Package
BD7690FJ	10.0 to 26.0	BCMPFC	–	Auxiliary Winding	Single	220	–	–	–	SOP-J8
BD7691FJ				Resistance	Double					SOP-J8
BD7692FJ						450	✓			SOP-J8
BD7693FJ	10.0 to 38.0			Auxiliary Winding	Single	–			✓	SOP-J8
BD7694FJ								✓		SOP-J8

AC电压过零检测IC

AC电压过零检测IC

Part No.	Output Voltage (V)	Maximum AC Input Voltage (V)	DC Voltage Monitor Function	Zero Cross Delay Time (µs)	Output Waveform	Stand by Current (µA)	Quiescent Current (µ)	Output Type	Protection Circuit	Operating Temperature (˚C)	Package
BM1Z012FJ	10 to 28	600	–	Variable	Pulse	50	160	Nch Open Drain	TSD/UVLO	–40 to +105	SOP-J7S
BM1Z001FJ				300 to 500							SOP-J7S
BM1Z002FJ				Variable							SOP-J7S
BM1Z003FJ					Edge						SOP-J7S
BM1Z101FJ			✓	300 to 500	Pulse						SOP-J11
BM1Z102FJ				Variable							SOP-J11
BM1Z103FJ					Edge						SOP-J11

二次侧同步整流IC

二次侧同步整流IC

Part No.	Output Voltage (V)	Control Method	Shunt Regulator Accuracy (%)	Drain Terminal Maximum Voltage (V)	Compulsion OFF Time (µs)	V_{CC} OVP	Auto Sleep Function	CCM Mode	Package
BM1R00146F	2.7 to 32.0	SR	±0.5	120	1.3	Auto Restart	✓	✓	SOP8
BM1R00147F					2.0				SOP8
BM1R00148F					3.0				SOP8
BM1R00149F					3.6				SOP8
BM1R00150F					4.6				SOP8
BM1R00178F					3.0		–		SOP8
BD87007FJ			±1.0		3.85				SOP-J8
BD85506F	5.0 to 32.0	SR for LLC			–		✓	–	SOP14

绝缘型DC-DC转换器IC

绝缘型DC-DC转换器IC(无需光电耦合器)(工业设备用)

Part No.	Output Power	SW Terminal Withstand Voltage (V)	Over-Current Detection Current (A)	Input Voltage (V)	Switching Frequency (kHz)	Control Method	Features						Package
							Enable	Soft Start	Light-Load Efficiency	UVLO	Over-Current Protection	Thermal Protection	
BD7F100EFJ-LB	1W at V_{IN} 5.0V 5W at V_{IN} 24V	60	1.25	3.0 to 40.0	400	Adaptive on-time	✓	✓	✓	✓	Recovery	Recovery	HTSOP-J8
BD7F100HFN-LB													HSON8
BD7F200EFJ-LB	5W at V_{IN} 12V 10W at V_{IN} 24V	60	2.75	8.0 to 40.0									HTSOP-J8
BD7F200HFN-LB													HSON8
New BD7J101EFJ-LB	2.5W at V_{IN} 24V 5W at V_{IN} 48V	120	0.9	8.0 to 80.0									HTSOP-J8
New BD7J101HFN-LB													HSON8
BD7J201EFJ-LB	5W at V_{IN} 24V 10W at V_{IN} 48V	120	1.8	8.0 to 80.0									HTSOP-J8
☆BD7J201HFN-LB													HSON8
BD7J200EFJ-LB	5W at V_{IN} 24V 10W at V_{IN} 48V	120	1.75	8.0 to 80.0									HTSOP-J8
BD7J200HFN-LB													HSON8

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支持车载 绝缘型DC-DC转换器IC

支持车载 绝缘型DC-DC转换器IC(无需光电耦合器)

Part No.	Output Power	SW Terminal Withstand Voltage (V)	Over-Current Detection Current (A)	Input Voltage (V)	Switching Frequency (kHz)	Control Method	Features						Package	Automotive Grade AEC-Q100
							Enable	Soft Start	Light-Load Efficiency	UVLO	Over-Current Protection	Thermal Protection		
New BD7F105EFJ-C	4W at V_{IN} 12V	62	2.6	3.4 to 42.0	363	Adaptive on-time	✓	✓	✓	✓	Recovery	Recovery	HTSOP-J8	YES
New BD7F205EFJ-C	6W at V_{IN} 12V		3.8										HTSOP-J8	YES

栅极驱动器

内置绝缘元件的栅极驱动器

支持车载 内置绝缘元件的栅极驱动器

Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Output Current (A)	Operating Temperature (˚C)	Function	Package	Automotive Grade AEC-Q100
BM6101FV-C	4.5 to 5.5	14 to 24	–12 to 0	2,500	350	180	±3	–40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	YES
BM6102FV-C	4.5 to 5.5	14 to 20	–	2,500	200	100	±3	–40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	YES
BM6104FV-C	4.5 to 5.5	10 to 24	–12 to 0	2,500	150	90	±3	–40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	YES
BM6109FV-C	4.5 to 5.5	14 to 18	–	2,500	700	600	±4.5	–40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/Soft turn-off function for SCP	SSOP-B28W	YES
BM6112FV-C	4.5 to 5.5	14 to 20	–12 to 0	3,750	150	90	±20	–40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B28W	YES
BM61M22BFJ-C	4.5 to 5.5	9 to 24	–	2,500	60	60	±2	–40 to +125	UVLO	SOP-JW8	YES
BM61M41RFV-C	4.5 to 5.5	9 to 24	–	3,750	65	60	±4	–40 to +125	Active miller clamping/UVLO	SSOP-B10W	YES
BM61S40RFV-C	4.5 to 5.5	16 to 20	–	3,750	65	60	±4	–40 to +125	Active miller clamping/UVLO/OVP	SSOP-B10W	YES
BM61S41RFV-C	4.5 to 5.5	16 to 24	–	3,750	65	60	±4	–40 to +125	Active miller clamping/UVLO	SSOP-B10W	YES

内置绝缘元件的栅极驱动器(工业设备用)

Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Output Current (A)	Operating Temperature (˚C)	Function	Package
BM6108FV-LB	4.5 to 5.5	10 to 24	–12 to 0	2,500	150	90	±3	–40 to +105	Active miller clamping/Fault signal output/UVLO/ SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W

内置绝缘元件的栅极驱动器(内置反激式电源)

Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Output Current (A)	Operating Temperature (°C)	Function	Package	Automotive Grade AEC-Q100
BM60052AFV-C	4 to 32	10 to 20	−12 to 0	2,500	120	90	±3	−40 to +125	Active miller clamping/Fault signal output/UVLO/DESAT/ Ready output/Soft turn-off function for DESAT	SSOP-B28W	YES
BM60054AFV-C	4 to 32	10 to 20	−12 to 0	2,500	120	90	±3	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Ready output/Soft turn-off function for SCP	SSOP-B28W	YES
BM60055FV-C	4.5 to 30.0	9 to 24	—	2,500	250	170	±5	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Soft turn-off function for SCP/OCP/2 level turn off	SSOP-B28W	YES
BM60060FV-C	8 to 24	13.5 to 24.0	—	2,500	210	90	±9	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Soft turn-off function for SCP/Gate Resistance Selecting	SSOP-B28W	YES
BM60059FV-C	4.5 to 24	14 to 24	—	2,500	450	400	External Settings /−10	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Soft turn-off function for SCP/Gate Resistance Selecting	SSOP-B28W	YES

其他

IGBT/MOSFET低边栅极驱动器

Part No	Input-side Supply Voltage (V)	I/O Delay Time (ns)	Output Current (A)	ch	Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
BD2310G	4.5 to 18	15	4/−4	1	−40 to +125	SSOP5	—

IGBT/MOSFET高边低边栅极驱动器

Part No	Input-side Supply Voltage (V)	High-side Floating Supply Voltage (V)	I/O Delay Time (ns)	minimum Output Current (A)	ch	Miller Clamping Function	Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
BD2320UEFJ-LA	7.5 to 14.5	100	27/29	3.5/−4.5*	2	—	−40 to +125	HTSOP-J8	—
BM60212FV-C	10 to 24	1,200	75	3/−3		✓	−40 to +125	SSOP-B20W	YES
BM60213FV-C	10 to 24	1,200	75	3/−3		—	−40 to +125	SSOP-B20W	YES

*BD2320EFJ is a standard value.

(LAPIS Technology产品)

电池管理系统(BMS)用非绝缘型栅极驱动器

Part No.	Supply Voltage (V)	Gate Driving Voltage (V) Min	Turn on Time (µs) Max	Turn off Time (µs) Max	Operating temperature (°C)	Package	Halogen Free Support	Automotive Grade Available AEC-Q100
☆ML5810	+6.5 to +64.0	10	350	70	−40 to +105	P-TSSOP20-0225-0.65-TK6	✓	YES
ML5810A						P-TSSOP20-0225-0.65-TK6		—

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电源管理开关

1ch小型高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD2220G	2.7 to 5.5	160	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery	15	—	SSOP5
BD2221G	2.7 to 5.5	160	L Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD6538G	2.7 to 5.5	150	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD2224G	2.7 to 5.5	150	H Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2225G	2.7 to 5.5	150	L Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2226G	2.7 to 5.5	150	H Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5
BD2227G	2.7 to 5.5	150	L Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5
BD2232G	2.7 to 5.5	100	H Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5
BD2233G	2.7 to 5.5	100	L Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5
BD2240G	2.7 to 5.5	110	H Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5
BD2241G	2.7 to 5.5	110	L Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5
BD2246G	2.7 to 5.5	110	H Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5
BD2247G	2.7 to 5.5	110	L Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5
BD2248G	2.7 to 5.5	110	H Active	0.2	0.2/0.3/0.4	1.0	Recovery	Recovery		60	SSOP5
BD2222G*	2.8 to 5.5	90	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	—	SSOP6
BD2242G*	2.8 to 5.5	90	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery		60	SSOP6
BD2243G*	2.8 to 5.5	90	L Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery		60	SSOP6

*UL approved File No. E243261

电源管理开关

车载用 1ch小型高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD22621G-M	2.7 to 5.5	120	H Active	0.15	0.18/0.30/0.42	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2262G-M	2.7 to 5.5	120	H Active	0.2	0.2/0.3/0.4	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD22641G-M	2.7 to 5.5	120	H Active	0.5	0.57/0.76/0.96	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2264G-M	2.7 to 5.5	120	H Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2265G-M	2.7 to 5.5	120	L Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2266G-M	2.7 to 5.5	120	H Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2267G-M	2.7 to 5.5	120	L Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2268G-M	2.7 to 5.5	110	H Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2269G-M	2.7 to 5.5	110	L Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2244G-M*2	2.8 to 5.5	100	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	60	SSOP6	FSs	YES
BD2245G-M*2	2.8 to 5.5	100	L Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery		60	SSOP6	FSs	YES

1ch小型高边开关IC(工业设备用)

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD2220G-LB	2.7 to 5.5	160	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery	15	—	SSOP5
BD2221G-LB	2.7 to 5.5	160	L Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD6538G-LB	2.7 to 5.5	150	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD2224G-LB	2.7 to 5.5	150	H Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2225G-LB	2.7 to 5.5	150	L Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2226G-LB	2.7 to 5.5	150	H Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5
BD2227G-LB	2.7 to 5.5	150	L Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5

1ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD82020FVJ*2	2.8 to 5.5	90	H Active	1.1	1.1/1.5/2.0	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82021FVJ*2	2.8 to 5.5	90	L Active	1.1	1.1/1.5/2.0	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82022FVJ*2	2.8 to 5.5	90	H Active	1.5	1.5/2.0/2.6	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82023FVJ*2	2.8 to 5.5	90	L Active	1.5	1.5/2.0/2.6	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82024FVJ*2	2.8 to 5.5	90	H Active	2.1	2.1/2.5/3.3	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82025FVJ*2	2.8 to 5.5	90	L Active	2.1	2.1/2.5/3.3	0.4	Recovery	Recovery		75	TSSOP-B8J
BD2051AFJ	2.7 to 5.5	80	H Active	0.5	0.7/1.0/1.6	1.2	Recovery	Recovery	1.3	—	SOP-J8
BD2065AFJ	2.7 to 5.5	80	H Active	1.0	1.1/1.5/2.3	1.2	Recovery	Recovery	2.5	—	SOP-J8
BD82028FVJ*2	4.5 to 5.5	72	H Active	0.5	0.6/1.0/1.2	0.3	Recovery	Recovery	13	75	TSSOP-B8J
BD82029FVJ*2	4.5 to 5.5	72	L Active	0.5	0.6/1.0/1.2	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82030FVJ*2	4.5 to 5.5	72	H Active	1.0	1.05/1.5/1.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82031FVJ*2	4.5 to 5.5	72	L Active	1.0	1.05/1.5/1.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82032FVJ*2	4.5 to 5.5	72	H Active	1.5	1.55/2.0/2.3	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82033FVJ*2	4.5 to 5.5	72	L Active	1.5	1.55/2.0/2.3	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82034FVJ*2	4.5 to 5.5	72	H Active	2.0	2.05/2.5/2.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82035FVJ*2	4.5 to 5.5	72	L Active	2.0	2.05/2.5/2.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82038FVJ*2	2.7 to 5.5	72	H Active	0.5	0.60/1.00/1.20	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82039FVJ*2	2.7 to 5.5	72	L Active	0.5	0.60/1.00/1.20	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82040FVJ*2	2.7 to 5.5	72	H Active	1.0	1.05/1.50/1.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82041FVJ*2	2.7 to 5.5	72	L Active	1.0	1.05/1.50/1.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82042FVJ*2	2.7 to 5.5	72	H Active	1.5	1.55/2.00/2.30	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82043FVJ*2	2.7 to 5.5	72	L Active	1.5	1.55/2.00/2.30	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82044FVJ*2	2.7 to 5.5	72	H Active	2.0	2.05/2.50/2.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82045FVJ*2	2.7 to 5.5	72	L Active	2.0	2.05/2.50/2.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82046FVJ*2	2.7 to 5.5	72	H Active	2.5	2.70/3.20/3.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82047FVJ*2	2.7 to 5.5	72	L Active	2.5	2.70/3.20/3.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82001FVJ	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	—	TSSOP-B8J
BD82000FVJ	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82065FVJ	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82061FVJ	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J

车载用 1ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD82004FVJ-M	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	—	TSSOP-B8J	FSs	YES
BD82005FVJ-M	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery		—	TSSOP-B8J	FSs	YES
BD82006FVJ-M	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J	FSs	YES
BD82007FVJ-M	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J	FSs	YES

1ch高边开关IC(工业设备用)

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD82001FVJ-LB	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	—	TSSOP-B8J
BD82000FVJ-LB	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82065FVJ-LB	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82061FVJ-LB	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J

2ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD6516F*2	3.0 to 5.5	110	H Active	1.1	1.2/1.65/2.5	1.3	Recovery	Recovery	1	—	SOP8
BD2066FJ*2	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8
BD2062FJ*2	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery		—	SOP-J8

车载用 2ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD2068FJ-M	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8	FSs	YES
BD2069FJ-M	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery		—	SOP-J8	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。
*2 UL approved File No. E243261

2ch高边开关IC(工业设备用)

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD2066FJ-LB*	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8
BD2062FJ-LB*	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery		—	SOP-J8

*UL approved File No. E243261

负载开关IC

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package (mm)
BD6528HFV	V_{DD}=2.7 to 4.5/ V_{IN}=0 to 2.7	20	110	1	H Active	0.5	—	0.5	—	70	HVSOF6
BD6529GUL	V_{DD}=2.7 to 4.5/ V_{IN}=0 to 2.7	20	100		H Active	0.5	—	0.5	—	70	VCSP50L1 1.0×1.5, H=0.55
BD2200GUL	2.7 to 5.5	20	100		H Active	0.5	—	1.0	—	70	VCSP50L1 1.0×1.5, H=0.55
BD2201GUL	2.7 to 5.5	20	100		H Active	1.0	—	1.0	—	70	VCSP50L1 1.0×1.5, H=0.55
BD2204GUL	V_{IN}1=2.7 to 4.5/ V_{IN}2=1.2 to 2.4	30	120		H Active	0.5	—	0.06	Recovery	80	VCSP50L1 1.0×1.5, H=0.55
BD2202G	2.7 to 3.6	70	150		H Active	0.2	0.25/—/1.0	1.2	Recovery	—	SSOP5
BD2206G	2.7 to 3.6	70	150		H Active	0.5	0.8/—/1.6	1.2	Recovery	—	SSOP5
BD6520F	3.0 to 5.5	110	50		H Active	2.0	—	2.0	Latch	350	SOP8
BD6522F	3.0 to 5.5	110	50		H Active	2.0	—	1.0	Latch	350	SOP8

负载开关IC(工业设备用)

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package
BD2202G-LB	2.7 to 3.6	70	150	1	H Active	0.2	0.25/—/1.0	1.2	Recovery	—	SSOP5
BD2206G-LB	2.7 to 3.6	70	150		H Active	0.5	0.8/—/1.6	1.2	Recovery	—	SSOP5

小型高边负载开关IC

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package (mm)
BUS1DJC0GWZ	1.1 to 5.0	0.35	63	1	H Active	2.0	—	0.012	—	80	UCSP30L1 0.8×0.8, H=0.35
BUS1DJC3GWZ	1.1 to 5.0	0.35	63		H Active	2.0	—	0.19	—	80	UCSP30L1 0.8×0.8, H=0.35
BDS2EJAAGUL	3.0 to 3.6	0.2	45	2	H Active	1.0	1.0	— (Soft Start)	Recovery	30	VCSP50L1 1.95×1.0, H=0.55

34V耐压1ch小型高边负载开关IC

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package
BV1HAL45EFJ	8 to 32	0.5	45	1	H Active	3.4 to 9.9 Adjustable	17.4 to 34.6	11.79 to 64.05 Adjustable	Recovery	—	HTSOP-J8
BV1HAL85EFJ	8 to 32	0.5	85		H Active	2.5 to 6.5 Adjustable	8.7 to 17.3	5.45 to 29.60 Adjustable	Recovery	—	HTSOP-J8
BV1HALA5EFJ	8 to 32	0.5	150		H Active	0.75 to 2.1 Adjustable	5.7 to 11.3	5.45 to 29.60 Adjustable	Recovery	—	HTSOP-J8

高边NMOSFET用控制器IC

Part No.	Input Voltage (V)	Current Consumption (μA)	Output Voltage (V)		Number of Output channel (ch)	Control Input Logic	Output Turn on Time (ms)	Discharge Resistance (Ω)	Package
			V_{CC}=3.3V	V_{CC}=5.0V					
BD2270HFV	2.7 to 5.5	50	9.5	13.5	1	H Active	0.13	200	HVSOF5

高边NMOSFET用控制器IC(工业设备用)

Part No.	Input Voltage (V)	Current Consumption (μA)	Output Voltage (V)		Number of Output channel (ch)	Control Input Logic	Output Turn on Time (ms)	Discharge Resistance (Ω)	Package
			V_{CC}=3.3V	V_{CC}=5.0V					
BD2270HFV-LB	2.7 to 5.5	50	9.5	13.5	1	H Active	0.13	200	HVSOF5

无线供电

(LAPIS Technology产品)

工业/消费电子用 13.56MHz Wireless Charge

Part No.	Function Overview	Charging Power (max)	NFC Forum Compliant	Charging Control	NFC Communication Control	Supply Voltage (V)	Clock Source	Data Flash (Byte)	ADC	Host I/F	Quality Grade	Operating Temperature (°C)*1	Package	Halogen Free Support*2
ML7630	Power Receiving	200mW		· 200mW Output · Current, Voltage, Temperature Monitoring	· Communication Speed: 212kbps	Generated from magnetic field	Generated from magnetic field	496	10bit (SA type) ×1ch	I²C slave ×1ch	Consumer	−40 to +85	S-UFLGA34-2.59×2.59-0.40-W (WCSP34)	✓
ML7631	Power Transmitter			· Transmission Power Adjust Control	· Communication Speed: 212kbps	4.5 to 5.5	27.12MHz (Crystal)	496	—	I²C slave ×1ch	Consumer	−40 to +85	P-WQFN32-0505-0.50-A63	✓
ML7660	Power Receiving	1W		· Current, Voltage, Temperature Monitoring	· Communication Speed: 212kbps, 424kbps	Generated from magnetic field	Generated from magnetic field	496	10bit (SA type) ×4ch	SPI slave ×1ch I²C slave ×1ch	Consumer/ Industrial	−40 to +85	S-UFLGA30-2.28×2.61-0.40-W (WCSP30) P-WQFN32-0505-0.50-A63	✓
ML7661	Power Transmitter			· Transmission Power Adjust Control	· Communication Speed: 212kbps, 424kbps	4.5 to 5.5	27.12MHz (Crystal)	496	10bit (SA type) ×6ch	SPI slave ×1ch I²C slave ×1ch	Consumer/ Industrial	−40 to +85	P-WQFN40-0606-0.50-63	✓
☆ML7670	Power Receiving	250mW	✓	· 250mW Output · Current, Voltage, Temperature Monitoring	· NFC Forum Type3 Tag · Communication Speed: 212kbps, 424kbps	Generated from magnetic field	Generated from magnetic field	496	10bit (SA type) ×3ch	I²C slave ×1ch	Consumer	−40 to +85	S-UFLGA30-2.28×2.56-0.40-W (WCSP30)	✓
☆ML7671	Power Transmitter		*3	· Transmission Power Adjust Control	· Communication Speed: 212kbps, 424kbps	4.5 to 5.5	27.12MHz (Crystal)	496	10bit (SA type) ×6ch	I²C slave ×1ch	Consumer	−40 to +85	P-WQFN40-0606-0.50-63	✓

车载用 13.56MHz Wireless Charge

Part No.	Function Overview	Charging Power (max)	NFC Forum Compliant	Charging Control	NFC Communication Control	Supply Voltage (V)	Clock Source	Data Flash (Byte)	ADC	Host I/F	Automotive Grade AEC-Q100	Operating Temperature (°C)*1	Package	Halogen Free Support*2
☆ML7800	Power Receiving	1W	✓	· Current, Voltage, Temperature Monitoring	· NFC Forum Type3 Tag · Communication Speed: 212kbps, 424kbps	Generated from magnetic field	Generated from magnetic field	496	10bit (SA type) ×4ch	SPI slave ×1ch I²C slave ×1ch	✓	−40 to +85	WQFN (TBD)	✓
☆ML7801	Power Transmitter		*3	· Transmission Power Adjust Control	· Communication Speed: 212kbps, 424kbps	4.5 to 5.5	27.12MHz (Crystal)	496	10bit (SA type) ×6ch	SPI slave ×1ch I²C slave ×1ch	✓	−40 to +85	WQFN (TBD)	✓

*1 通信时。
*2 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。
*3 仅限Type-F

☆: 开发中

电池管理

电池充电IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Charge Voltage (V)	Charge Current Accuracy (%)	Switching Frequency (kHz)	Operating Temperature (℃)	Package
BD71631QWZ	(2.9V: 30mA, 4.0V: 300mA) to 5.5	–	2.0 to 4.7 (±2%)	±10 (ICHG=100mA to 300mA)	–	–30 to +105	UMMP10LZ1824
BD8664GW	4.1 to 5.5	70	8.3±0.5%	±2	1,000	–30 to +85	UCSP75M2
BD8665GW	4.1 to 5.5	70	8.4±0.5%	±3	1,000	–30 to +85	UCSP75M2
BD99950MUV	6.0 to 24.0	–	8.4/12.6±0.5%	±3	600 to 1,200	–10 to +85	VQFN20PV3535
BD99954GW	3.8 to 25.0	–	4.192/8.4/ 12.592/16.8±0.5%	±2 to ±40	600 to 1,200	–30 to +85	UCSP55M3C
BD99954MWV	3.8 to 25.0	–	4.192/8.4/ 12.592/16.8±0.5%	±2 to ±40	600 to 1,200	–30 to +85	UQFN040V5050

充电保护IC

标准保护型

Part No.	Absolute Maximum Ratings (V)	Over Voltage Detection Level (V)	Under Voltage Detection Level (V)	Over Current Detection Level (A)	Ron (mΩ)	OK/FLGB PIN Logic			Package (mm)
						<UVLO	Normal	>OVLO	
BD6040GUL	+30	6.4±0.2	2.65±0.12	Min 1.2	125 (Typ)	H	L	H	VCSP50L1 1.6×1.6, H=Max 0.55
BD6041GUL	+30	5.85±0.15	2.65±0.12	Min 1.2	125 (Typ)	H	L	H	VCSP50L1 1.6×1.6, H=Max 0.55

负电压保护型

Part No.	Absolute Maximum Ratings (V)	Over Voltage Detection Level (V)	Under Voltage Detection Level (V)	Over Current Detection Level (A)	Ron (mΩ)	OK/FLGB PIN Logic			Package (mm)
						<UVLO	Normal	>OVLO	
BD6046GUL	±30	6.7±0.2	3.6±0.18	Min 1.2	250 (Typ)	H	H	L	VCSP50L2 2.5×2.5, H=Max 0.55
BD6047AGUL	±30	5.85±0.15	3.6±0.18	Min 1.7	125 (Typ)	H	H	L	VCSP50L1 1.95×1.95, H=Max 0.55

标准保护型：防止来自接合器/USB的异常电压。内置过电压闭锁电路、过电流限制电路、低电压保护电路、内部启动延迟以及状态标志。
负电压保护型：加之以往的保护功能，增加了防止USB逆接引起的负电压保护功能无需任何附加部件。

蓄电元件电池平衡IC

EDLC电池平衡IC(4～6节对应)

Part No.	Absolute Maximum Ratings (V)	Cell Voltage Detection Range VCB (V)	Over-voltage Detection Voltage 1 (V)	Over-voltage Detection Voltage 2 (V)	Shunt SW Ron (Ω)	Function			Package (mm)	ComfySIL™ Functional Safety*1
						EN	OVLO	Stack IC		
BD14000EFV-C	+28	2.4 to 3.1V± (1%) (0.1V/step usable)	VCB+0.15 or 0.25 (OVLOSEL=L or H)	VCB+0.3 or 0.5 (OVLOSEL=L or H)	1 (Typ)	✓	✓	✓	HTSSOP-B30 10.0×7.6, H=Max 1.0	FSs

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

库仑计数器IC

库仑计数器IC

Part No.	Supply Voltage (V)	Gain (V/V)	Resolution (bit)	I/F	Operating Temperature (℃)	Package	Automotive Grade AEC-Q100
BD7220FV-C	4.5 to 5.5	5/25/51	16	SPI	–40 to +125	SSOP-B20 6.5×6.4 (t=1.45)	YES

锂电池监控LSI

(LAPIS Technology产品)

独立式

Part No.	Description	Supply Voltage (V)	Overvoltage Detection Accuracy (Typ) (mV)	Charge/ Discharge Control FET driver	Cell Balancing Switch	Current Consumption (Typ) (μA)		Overvoltage/ Undervoltage Detection	Charge and Discharge Over-Current Detection	Temperature Detection	Short Circuit Detection	Open Wire Detection	Parameter Change	Operation Temperature (℃)	Package	Halogen Free Support*1
						Operating	Power-down									
ML5241	5-cells, 2nd protection	+5 to +25	±25	–	–	1	0.1	Overvoltage detection	–	–	–	✓	Mask option	–20 to +85	P-WSON10 -0303-0.50-63	✓
ML5205	5-cells/2nd protection, number of connected battery cells detection					3	–								P-VSSOP8 -0150-0.65-TK6	
ML5206	5-cells, 2nd protection with Autonomous Cell Balancing				Internal (Autonomous)	1									P-VSSOP8 -0150-0.65-TK6	
ML5243	5-cells, cell voltage/current/temperature protection			Low-side	–	6.5	0.1	✓	✓	✓	✓			–40 to +85	P-TSSOP20 -0225-0.65-TK6	
ML5233	10-cells, cell voltage/current/ temperature protection, cascade connection	+5 to +60	±15			25						–			P-LQFP32 -0707-0.80-TK6	
ML5245	13-cells, cell voltage/current/ temperature protection, cell voltage monitoring	+7 to +80													P-SSOP30 -56-0.65-ZK6	
ML5232	14-cells, 2nd protection		±20	–		2.5	–	Overvoltage detection	–	–	–			–40 to +105	P-TSSOP20 -0225-0.65-TK6	

模拟前端型

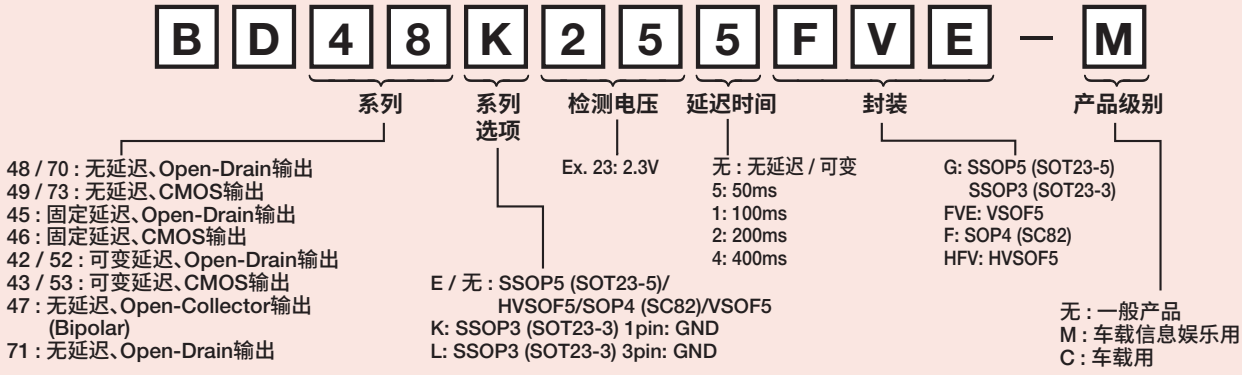
Part No.	Description	Supply Voltage (V)	Cell Voltage Measurement Error (Typ) (mV)	Monitoring Output	Charge/ Discharge Control FET driver	Cell Balancing Switch	Current Consumption (Typ) (μA)		Overvoltage/ Undervoltage Detection	Charge and Discharge Over-Current Detection	Short Circuit Detection	Parameter Change	Operation Temperature (℃)	Package	Halogen Free Support*1
							Operating	Power-down							
ML5204	5-cells, analog monitoring output	+3.3 to +42.0	±25	cell voltage/ current	–	internal	14	–	✓	✓	✓	Mask option	–40 to +85	P-TSSOP20 -0225-0.65-TK6	✓
ML5248	7-cells, analog monitoring output	+5.0 to +31.5	±20		High-side		32	0.1	–	–		MCU control		P-SSOP30 -56-0.65-ZK6	
ML5236	14-cells, ADC built-in, digital monitoring output	+8 to +64	±15	cell voltage/ current/temperature			330		Overvoltage detection					P-TQFP44 -1010-0.80-ZK6	
ML5238	16-cells, analog monitoring output	+7 to +80	±20	cell voltage/ current	Low-side		50		–					P-QFP44 -910-0.80-2K	
ML5239	16-cells, ADC built-in, cascade connection, digital monitoring output	+10 to +72	±10	cell voltage/ temperature	–	external	1200				–			P-TQFP64 -1010-0.50-ZK6	

*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。

电压检测器(复位IC)

电压检测器(复位IC)	P.59	过电压检测型(复位IC)	P.60
延迟时间可变型 电压检测器	P.60	延迟时间内部设定型 电压检测器	P.60
车载用电压检测器	P.61	车载用电源监测IC	P.61
看门狗计时器复位IC	P.61	复合型(2ch复位＋比较器)电压检测器	P.61

看门狗计时器复位　品名构成说明



电压检测器(复位IC)

电压检测器(复位IC)

通用CMOS电压检测器IC

Part No.	Types	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output Current (mA) V_{DD}=1.2V	"L" Output Current (mA) V_{DD}=2.4V	Package
BD48ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1	Open Drain	0.60 (V_S=4.8V)	0.85 (V_S=4.8V)	V_S×0.05	1	4	SSOP5
BD48xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							VSOF5
BD48KxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 1pin)
BD48LxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 3pin)
BD49ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1	CMOS						SSOP5
BD49xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							VSOF5
BD49KxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 1pin)
BD49LxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 3pin)

品名中的xx为检测电压值(2.3V～6.0V的0.1V阶跃)。　例：BD48ExxG系列中需要2.3V检测电压值的情况下，品名为BD48E23G。

电压检测器(低电压检测型)

Part No.	Types	Voltage detection Precision at T_a=+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output Current (mA) V_{DD}=1.2V	"L" Output Current (mA) V_{DD}=2.4V	Package
BU48xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	Open Drain	0.40 (V_{DET}=4.8V)	0.55 (V_{DET}=4.8V)	V_{DET}×0.05	3.3	6.5	SSOP5
BU48xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							VSOF5
BU48xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							SOP4
BU49xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	CMOS						SSOP5
BU49xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							VSOF5
BU49xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							SOP4

双极型电压检测器

Part No.	Types	Voltage detection Precision at T_a=+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) I_{CCL}	Circuit Current (μA) I_{CCH}	Hysteresis Voltage (mV)	"L" Output Current (mA)	Package
BD47xxG series	0.1V step 28 types	±1	1.9 to 4.6	0.85 to 10.00	0.1	Open Collector	1.5	1.6	50	15	SSOP5

电压检测器(低电压检测型)：*品名中的xx为检测电压值(0.9V～4.8V的0.1V阶跃)。　例：BU48xxG系列中需要2.3V检测电压值的情况下，品名为BU4823G。
双极型电压检测器：*品名中的xx为检测电压值(1.9V～4.6V的0.1V阶跃)。　例：BD47xxG系列中需要2.3V检测电压值的情况下，品名为BD4723G。

过电压检测型(复位IC)

过电压检测用电压检测器

Part No.	Voltage Detection Precision at T_a=+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) I_{CCL}	Circuit Current (μA) I_{CCH}	Hysteresis Voltage (mV)	"L" Output Current (mA)	Package
BD71L4LG-1	±0.8	4.05	1.2 to 7.0	—	Open Drain	0.6	0.7	30	4 (V_{DD}=4.25V)	SSOP5
BD71L4LHFV-1	±0.8	4.05	1.2 to 7.0	—					4 (V_{DD}=4.25V)	HVSOF5
BD71L3SHFV	±1.0	3.83	1.2 to 7.0	—					4 (V_{DD}=4.03V)	HVSOF5

过电压检测用电压检测器(支持125°C)

Part No.	Types	Voltage Detection Precision Within The All Temperature (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output Current (mA) V_{DD}=1.2V	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano BD70HxxG-2C series	0.1V step 4 types	±1.4	3.46 to 3.76	0.8 to 6.0	0.1	Open Drain	0.27	0.3	—	1.0mA or more	SSOP5	FSs	YES
Nano BD73HxxG-2C series	0.1V step 4 types		3.46 to 3.76	0.8 to 6.0	0.1	CMOS					SSOP5	—	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。
可在型号的 "xx" 处加入检测电压。具体请参见数据表中的规格。

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延迟时间可变型 电压检测器

延迟时间外部设定型 电压检测器(传感检测型)

Part No.	Types	Voltage detection Precision at T_a=+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output Current (mA) V_{DD}=1.2V	"L" Output Current (mA) V_{DD}=2.4V	RESET Active Timeout Period (ms)	Delay Circuit Resistance (MΩ)	Package	ComfySIL™ Functional Safety*1
BD52ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1	Open Drain	0.90 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	1.2	5.0	Variable	9	SSOP5	FSs
BD52xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1		0.90 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	1.2	5.0	Variable	9	VSOF5	—
BD53ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1	CMOS	0.90 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	1.2	5.0	Variable	9	SSOP5	FSs
BD53xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1		0.90 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	1.2	5.0	Variable	9	VSOF5	—

延迟时间外部设定型 电压检测器(低电压检测型)

Part No.	Types	Voltage detection Precision at T_a=+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output Current (mA) V_{DD}=1.2V	"L" Output Current (mA) V_{DD}=2.4V	RESET Active Timeout Period (ms)	Delay Circuit Resistance (MΩ)	Package
BU42xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	Open Drain	0.40 (V_{DET}=4.8V)	0.55 (V_{DET}=4.8V)	V_{DET}×0.05	3.3	6.5	Variable	10	SSOP5
BU42xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	VSOF5
BU42xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	SOP4
BU43xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	CMOS						Variable	10	SSOP5
BU43xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	VSOF5
BU43xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	SOP4

延迟时间外部设定型 电压检测器(传感检测型)

Part No.	Voltage Detection Precision at T_a=+25°C (%)	Voltage Detection (V)	Power Supply Voltage (V)	Output type	Circuit Current (μA)	Hysteresis Voltage (V)	Output ON Resistance (Ω)	RESET Active Timeout Period (ms)	Package
BD4142HFV	±1.8	0.5	3.0 to 5.5	Open Drain	7.5	0.01	100	Variable	HVSOF5

延迟时间外部设定型电压检测器：品名中的xx为检测电压值(2.3V～6.0V的0.1V阶跃)。 例：BD52xxG系列中需要2.3V检测电压值的情况下，品名为BD52E23G。
延迟时间外部设定型电压检测器(低电压检测型)：品名中的xx为检测电压值(0.9V～4.8V的0.1V阶跃)。 例：BU42xxG系列中需要2.3V检测电压值的情况下，品名为BU4223G。
◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

延迟时间内部设定型 电压检测器

延迟时间内部设定型 电压检测器(漏极开路输出型)

Part No.	Types	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output current (mA) V_{DD}=1.2V	"L" Output current (mA) V_{DD}=2.4V	RESET Active Timeout Period (ms)	Manual Reset PIN	Package
BD45xx5G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1	Open Drain	0.80 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	1.2	5.0	50	YES	SSOP5
BD45xx1G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							100	YES	SSOP5
BD45xx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							200	YES	SSOP5
BU45Kxx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1		2.3 (V_{DET}=4.8V)	2.8 (V_{DET}=4.8V)				200	NO	SSOP3 (GND 1pin)
BU45Lxx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							200	NO	SSOP3 (GND 3pin)
BU45Kxx4G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							400	NO	SSOP3 (GND 1pin)
BU45Lxx4G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							400	NO	SSOP3 (GND 3pin)

品名中的xx为检测电压值(2.3V～4.8V的0.1V阶跃)。 例：BD45xx5G系列中需要2.3V检测电压值的情况下，品名为BD45235G。

延迟时间内部设定型 电压检测器(CMOS输出型)

Part No.	Types	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output current (mA) V_{DD}=1.2V	"L" Output current (mA) V_{DD}=2.4V	RESET Active Timeout Period (ms)	Manual Reset PIN	Package
BD46xx5G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1	CMOS	0.80 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	1.2	5.0	50	YES	SSOP5
BD46xx1G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							100	YES	SSOP5
BD46xx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							200	YES	SSOP5
BU46Kxx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1		2.3 (V_{DET}=4.8V)	2.8 (V_{DET}=4.8V)				200	NO	SSOP3 (GND 1pin)

品名中的xx为检测电压值(2.3V～4.8V的0.1V阶跃)。 例：BD45xx5G系列中需要2.3V检测电压值的情况下，品名为BD45235G。

车载用电压检测器

电压检测器(105°C对应)

Part No.	Types	Voltage Detection Precision at T_a=+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA) ON	Circuit Current (μA) OFF	Hysteresis Voltage (V)	"L" Output Current (mA)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Manual Reset PIN	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD48ExxG-M series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1	Open Drain	0.60 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	0.4 or more (V_{DD}=1.5V V_{DS}=0.5V)	2 or more (V_{DD}=2.4V V_{DS}=0.5V)	–	–	NO	SSOP5	FSs	YES
BD49ExxG-M series	0.1V step 38 types		2.3 to 6.0	0.95 to 10.00	0.1	CMOS						–	–	NO	SSOP5	FSs	YES
BD45Exx5G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1	Open Drain	0.80 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	0.45 or more (V_{DD}=1.2V V_{DS}=0.3V)	1.3 or more (V_{DD}=2.4V V_{DS}=0.3V)	50	–	YES	SSOP5	FSs	YES
BD45Exx1G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							100	–	YES	SSOP5	FSs	YES
BD45Exx2G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							200	–	YES	SSOP5	FSs	YES
BD46Exx5G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1	CMOS						50	–	YES	SSOP5	FSs	YES
BD46Exx1G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							100	–	YES	SSOP5	FSs	YES
BD46Exx2G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							200	–	YES	SSOP5	FSs	YES
Nano BD52xxG-2M series	0.1V step 42 types	±2.5 (All Temperature)	0.9 to 5.0	0.8 to 6.0	0.1	Open Drain	0.23	0.27	V_{DET}×0.05	1.0 or more (V_{DD}=1.2V V_{DS}=0.4V)	2.0 or more (V_{DD}=2.4V V_{DS}=0.4V)	Variable	±30% (All Temperature)	NO	SSOP5	FSs	YES
Nano BD53xxG-2M series	0.1V step 42 types		0.9 to 5.0	0.8 to 6.0	0.1	CMOS						Variable		NO	SSOP5	FSs	YES

电压检测器(125°C对应)

Part No.	Types	Voltage Detection Precision Within The All Temperature (%)	Voltage Detection (V)	RESET Active Voltage Range (V)	Detection step (V)	Output Type	Circuit current (μA) ON	Circuit current (μA) OFF	Hysteresis Voltage (V)	"L" Output current (mA) (V_{DS}=0.4V)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Manual Reset PIN	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano BD52xxG-2C series	0.1V step 42 types	±3	0.9 to 5.0	0.8 to 6.0	0.1	Open Drain	0.23	0.27	V_{DET}×0.05	1.0 or more (V_{DD}=1.2V)	2.0 or more (V_{DD}=2.4V)	Variable	±50 (All Temperature)	NO	SSOP5	FSs	YES
Nano BD53xxG-2C series	0.1V step 42 types		0.9 to 5.0	0.8 to 6.0	0.1	CMOS						Variable		NO	SSOP5	FSs	YES
Nano BD5320NVX-2C	1	±2.5	2.0	0.8 to 6.0	–							Variable		NO	SSON004R1010	FSs	YES
Nano BD52xxNVX-2C series	8 types		1.4 to 3.1	0.8 to 6.0	–	Open Drain						Variable		NO	SSON004R1010	FSs	YES
Nano BD70HxxG-2C/ BD70HxxG-C series	0.1V step 5 types	±1.4	3.46 to 3.76/ 3.06	0.8 to 6.0	0.1		0.27	0.3	–			–	–	NO	SSOP5	FSs/FSs	YES
Nano BD73HxxG-2C series	0.1V step 4 types		3.46 to 3.76	0.8 to 6.0	0.1	CMOS						–		NO	SSOP5	FSs	YES

窗口电压检测器(125°C对应)

Part No.	Operating Supply Voltage (V)	Voltage Detection Precision Within The All Temperature (%)	Over Voltage Detection (V)	Low Voltage Detection (V)	Output Type	Circuit current (μA)	Hysteresis Voltage (V)	"L" Output Current (mA) (V_{DS}=0.4V)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano BD48HW0G-C	1.8 to 40	±0.75	1.277	1.277	Open Drain	0.5	V_{DET}×0.01	2 or more (V_{DD}=1.8V)		–	–	SSOP6	FSs	YES
BD48W00G-C	1.6 to 6.0	±2.5	1.2	1.2		3						SSOP6	FSs	YES
Nano BD52W01G-C		±5	1.32	1.08		0.3		1 or more (V_{DD}=1.6V)	2 or more (V_{DD}=2.4V)	Variable	±50 (All Temperature)	SSOP6	FSs	YES
Nano BD52W02G-C			1.65	1.35								SSOP6	FSs	YES
Nano BD52W03G-C			1.98	1.62								SSOP6	FSs	YES
Nano BD52W04G-C			2.75	2.25								SSOP6	FSs	YES
Nano BD52W05G-C			3.63	2.97								SSOP6	FSs	YES
Nano BD52W06G-C			5.5	4.5								SSOP6	FSs	YES

品名中的"xx"为检测电压值。　例：BD48ExxG-M系列中需要2.3V检测电压值的情况下，品名为BD48E23G-M。
◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别"的详情请参阅封二。

Nano Nano Energy　Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano技术是罗姆充分实现节能和小型化的创新型电源技术。
上述 Nano 标记为采用Nano Energy™ 超低功耗技术的产品。Nano Pulse Control™、Nano Energy™ 和Nano Cap™ 是ROHM Co.,Ltd.的商标或注册商标。

车载用电源监测IC

4ch电源良好(看门狗计时器＋复位)

Part No.	Supply Voltage (V)	RESET Detection Voltage (V)	Power good Detection Voltage (V)	Detection level (%)	Detection Precision (%)	Power good ch	Output type	WDT type	RESET Active Timeout Period	Selfe-diagnosis function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD39040MUF-C	2.7 to 5.5	Variable	Variable	±10	±3	4	Open Drain	Window Type	10ms	YES	VQFN16FV3030	FSs	YES
BD39042MUF-C	2.7 to 5.5			±6	±1.4				10ms		VQFN16FV3030	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别"的详情请参阅封二。

其他

看门狗计时器复位IC

Part No.	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Output type	Circuit Current (μA) ON	Hysteresis Voltage (V)	"L" Output Current (mA) V_{DD}=1.2V	"L" Output Current (mA) V_{DS}=0.5V	RESET Active Timeout Period	Delay Circuit Resistance (MΩ)	WDT Active Voltage (V)	INH Mode (Active)	Package
BD37A19FVM	±1.5	1.9	1.0 to 10.0	Open Drain	5	V_{DET}×0.13	0.7		Variable	10	2.5 to 10.0	H	MSOP8
BD37A41FVM	±1.5	4.1	1.0 to 10.0			V_{DET}×0.035						H	MSOP8
BD87A28FVM	±1.5	2.8	1.0 to 10.0			V_{DET}×0.045						L	MSOP8
BD87A29FVM	±1.5	2.9	1.0 to 10.0			V_{DET}×0.05						L	MSOP8
BD87A34FVM	±1.5	3.4	1.0 to 10.0									L	MSOP8
BD87A41FVM	±1.5	4.1	1.0 to 10.0			V_{DET}×0.035						L	MSOP8
BD99A41F	±1.5	4.1	1.0 to 10.0									H	SOP8

复合型(2ch复位＋比较器)电压检测器

Part No.	Voltage Detection Precision (%)	Voltage Detection (V)	Output type	Circuit Current (μA) V_{SB}=5V	Hysteresis Voltage (mV)	RESET Active Timeout Period	Input Voltage (V)	Package
BD3775AF	±1.5	1.23	Open Collector+Constant Current Pull Up	350	28	Variable	3.5 to 18.0	SOP8

电机/执行机构驱动器

DC有刷电机驱动器	P.63	步进电机驱动器	P.65
三相无刷电机驱动器	P.68	风扇电机驱动器	P.69
打印机用驱动器	P.72	相机用驱动器	P.72
便携式相机模块用驱动器	P.74		

DC有刷电机驱动器

H桥驱动器 7V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6210F	1	3.0 to 5.5	0.5	2.0 or more	0.8 or less	1.0	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6210HFP								HRP7
BD6211F			1.0			1.0		SOP8
BD6211HFP								HRP7
BD6212FP			2.0			0.5		HSOP25
BD6212HFP								HRP7

H桥驱动器 18V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6220F	1	6.0 to 15.0	0.5	2.0 or more	0.8 or less	1.5	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6221F			1.0			1.5		SOP8
BD6222FP			2.0			1.0		HSOP25
BD6222HFP								HRP7
BD6225FP	2		0.5			1.5		HSOP25
BD6226FP			1.0			1.5		HSOP25

H桥驱动器 36V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6230F	1	6.0 to 32.0	0.5	2.0 or more	0.8 or less	1.5	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6231F			1.0			1.5		SOP8
BD6231HFP								HRP7
BD6232FP			2.0			1.0		HSOP25
BD6232HFP								HRP7
BD6236FP	2		1.0			1.5		HSOP25
BD6236FM								HSOP-M28
BD6237FM			2.0			1.0		HSOP-M28
BD62105AFVM	1	8.0 to 28.0	0.5			1.8		MSOP8
BD62110AEFJ			1.0					HTSOP-J8
BD62120AEFJ			2.0			0.65		HTSOP-J8
BD62130AEFJ			3.0			0.35		HTSOP-J8
BD62210AEFV	2		1.0			1.9		HTSSOP-B28
BD60203EFV			1.7			0.65		HTSSOP-B24
BD62220AEFV			2.0					HTSSOP-B28
BD62221MUV	2	8.0 to 28.0	2.0			0.55		VQFN032V5050

H桥驱动器 40V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Output Modes	Output ON Resistance (Upper + Lower) (Typ) (Ω)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD16950EFV-C	1	5.5 to 40.0	—	Available to select High, Low or Hi-Z Output by each Output terminal.	—	−40 to +125	HTSSOP-B24	FSs	YES
BD16939AEFV-C	3 (Half 6ch)	6.3 to 32.0	1.0	Available to select High, Low or Hi-Z Output by each Output terminal.	1.35	−40 to +125	HTSSOP-B28	FSs	YES
BD16938AEFV-C	4 (Half 8ch)	6.3 to 32.0	1.0	Available to select High, Low or Hi-Z Output by each Output terminal.	1.4	−40 to +125	HTSSOP-B28	—	YES
BD16912EFV-C	1	6.0 to 18.0	3.0	Forward/Reverse/ Standby/Brake	0.36	−40 to +125	HTSSOP-B20	FSs	YES

H桥驱动器 50V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD63130AFM	1	8.0 to 46.2	3.0	2.0 or more	0.8 or less	0.55	Forward/ Reverse/ Standby (Idle)/ Brake	HSOP-M36
BD63150AFM			5.0			0.3		HSOP-M36
BD64220EFV	2		2.0			0.65		HTSSOP-B28

H桥驱动器 大电流

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD62321HFP	1	6.0 to 32.0	3.0	2.0 or more	0.8 or less	1.0	Forward/ Reverse/ Standby (Idle)/ Brake	HRP7

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DC有刷电机驱动器

H桥驱动器 高速驱动系列

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6736FV	1	2.0 to 9.0	1.0 peak 3.2	2.0 or more	0.7 or less	0.35	Forward/Reverse/ Standby (Idle)/ Brake	SSOP-B20
BD6376GUL	1	2.0 to 9.0	1.0	2.0 or more	0.7 or less	0.45		VCSP50L1
BD65494MUV	1	2.0 to 9.0	1.0 peak 2.5	2.0 or more	0.7 or less	0.55		VQFN016V3030
BD63576NUX	1	2.0 to 10.0	1.2 peak 3.2	V_{CC}×0.7 or more	V_{CC}×0.3 or less	0.55		VSON008X2020
BD65491FV	1	1.8 to 16.0	1.2 Peak 4	1.45 or more	0.5 or less	0.35		SSOP-B16
BD65496MUV	1	1.8 to 16.0	1.2 peak 5	1.45 or more	0.5 or less	0.35		VQFN024V4040
BD63573NUV	1	2.0 to 16.0	1.2 peak 3.2	1.45 or more	0.5 or less	0.38		VSON010V3030
BD6735FV	2	2.0 to 8.0	1.0	2.0 or more	0.7 or less	1.0		SSOP-B20
BD63572MUV	2	2.0 to 9.0	1.0 peak 2.5	1.85 or more	0.9 or less	0.4		VQFN20PV3535
BD63565EFV	2	1.8 to 16.0	1.0	1.45 or more	0.5 or less	0.9		HTSSOP-B20
BD65492MUV	2	1.8 to 16.0	1.0	1.45 or more	0.5 or less	0.9		VQFN024V4040

步进电机驱动器

高性能、高可靠性 36V 耐压系列 步进电机驱动器 适用于 PPC、MFP、工业设备等

BD63740FM
CLK IN | Iomax. 4.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Exposed Package | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection

BD63731EFV
CLK IN | Iomax. 3.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | Exposed Package | FUNCTION COMPATIBLE *5 | PIN COMPATIBLE *6 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD63730EFV
CLK IN | PARA IN | Iomax. 3.0A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | Exposed Package | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | 4kV | Short Protection | Protection

BD63725BEFV
CLK IN | Iomax. 2.5A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *5 | PIN COMPATIBLE *6 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD63720AEFV
CLK IN | Iomax. 2.0A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *5 | PIN COMPATIBLE *6 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD63715AEFV
CLK IN | Iomax. 1.5A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *5 | PIN COMPATIBLE *6 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD63710AEFV
CLK IN | Iomax. 1.0A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *5 | PIN COMPATIBLE *6 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD63920MUV
CLK IN | PARA IN | Iomax. 2.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | SMALL SIZE Power PKG | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection

BD63910MUV
CLK IN | PARA IN | Iomax. 1.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | SMALL SIZE Power PKG | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection

BD63716AMWV
CLK IN | Iomax. 1.5A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | SMALL SIZE Power PKG | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection

BD68720EFV
PARA IN | Iomax. 2.0A | 1/4STEP | Constant Current PWM | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *3 | PIN COMPATIBLE *4 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD68715EFV
PARA IN | Iomax. 1.5A | 1/4STEP | Constant Current PWM | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *3 | PIN COMPATIBLE *4 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD68710EFV
PARA IN | Iomax. 1.0A | 1/4STEP | Constant Current PWM | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *3 | PIN COMPATIBLE *4 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | Short Protection | Protection

BD6389FM
CLK IN | PARA IN | Iomax. 2.2A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Exposed Package | FUNCTION COMPATIBLE *1 | PIN COMPATIBLE *2 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | 6kV | Short Protection | Protection

BD6387EFV
CLK IN | PARA IN | Iomax. 2.0A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *1 | PIN COMPATIBLE *2 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | 6kV | Short Protection | Protection

BD6385EFV
CLK IN | PARA IN | Iomax. 1.5A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *1 | PIN COMPATIBLE *2 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | 6kV | Short Protection | Protection

BD6383EFV
CLK IN | PARA IN | Iomax. 1.0A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE Power PKG | FUNCTION COMPATIBLE *1 | PIN COMPATIBLE *2 | ONE POWER | T.S.D. | A O.C.P. | UV LO | OVLO | 6kV | Short Protection | Protection

*1 BD6387EFV, BD6385EFV, BD6383EFV和BD6389FM功能兼容。
*2 BD6387EFV, BD6385EFV和BD6383EFV引脚兼容。
*3 BD68720EFV, BD68715EFV和BD68710EFV功能兼容。
*4 BD68720EFV, BD68715EFV和BD68710EFV引脚兼容。
*5 BD63731EFV, BD63725BEFV, BD63720AEFV, BD63715AEFV和BD63710AEFV功能兼容。
*6 BD63731EFV, BD63725BEFV, BD63720AEFV, BD63715AEFV和BD63710AEFV引脚兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD63740FM	8 to 28	4.0	2.0	2.0	0.8	0.28	HSOP-M36
BD63731EFV	8 to 28	3.0	2.0	2.0	0.8	0.28	HTSSOP-B28
BD63730EFV	19 to 28	3.0	2.0	2.0	0.8	0.4	HTSSOP-B54
BD63725BEFV	8 to 28	2.5	2.0	2.0	0.8	0.35	HTSSOP-B28
BD63720AEFV	19 to 28	2.0	2.0	2.0	0.8	0.65	HTSSOP-B28
BD63715AEFV	19 to 28	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD63710AEFV	19 to 28	1.0	2.0	2.0	0.8	1.2	HTSSOP-B28
BD63920MUV	8 to 28	2.0	2.5	2.0	0.8	0.49	VQFN028V5050
BD63910MUV	8 to 28	1.0	2.5	2.0	0.8	1.3	VQFN028V5050
BD63716AMWV	8 to 28	1.5	2.0	2.0	0.8	0.85	UQFN040V5050
BD68720EFV	19 to 28	2.0	2.0	2.0	0.8	0.65	HTSSOP-B28
BD68715EFV	19 to 28	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD68710EFV	19 to 28	1.0	2.0	2.0	0.8	1.2	HTSSOP-B28
BD6389FM	10 to 28	2.2	4.5	2.0	0.8	0.7	HSOP-M36
BD6387EFV	10 to 28	2.0	4.5	2.0	0.8	0.8	HTSSOP-B40
BD6385EFV	10 to 28	1.5	4.5	2.0	0.8	1.0	HTSSOP-B40
BD6383EFV	10 to 28	1.0	4.5	2.0	0.8	1.5	HTSSOP-B40

图标说明
CLK IN 控制信号输入 CLK-IN型
PARA IN 控制信号输入 PARALLEL-IN型
Iomax. 1.0A / 1.5A / 2.0A / 2.2A / 2.5A / 3.0A / 4.0A 最大输出电流
1/4STEP / 1/16STEP STEP
Constant Current PWM 恒流 PWM
FW/RW Switching 可以切换正转和反转
DECAY SW SLOW/FAST/MIX衰减转换功能
Thin PKG 薄型封装
SMALL SIZE Power PKG 大功率封装
Exposed Package 功能兼容
FUNCTION COMPATIBLE 大功率封装
PIN COMPATIBLE 引脚与其他厂家兼容轻松替换
ONE POWER 内置稳压器实现单电源系统
T.S.D. 内置温度保护电路
A O.C.P. 内置过电流保护电路
UV LO 内置低电压保护电路
OVLO 内置过电压保护电路
4kV / 6kV 静电耐压
Short Protection 相邻引脚短路保护
Protection IC逆装保护

标准36V耐压系列 步进电机驱动器

BD6395FP PARA IN, 1.5A, 1/4STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, 4kV, FUNCTION COMPATIBLE *1, PIN COMPATIBLE *2

BD6393FP PARA IN, 1.2A, 1/4STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, 4kV, FUNCTION COMPATIBLE *1, PIN COMPATIBLE *2

BD68620EFV PARA IN, 2.0A, 1/4STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, FUNCTION COMPATIBLE *5, PIN COMPATIBLE *5

BD68610EFV PARA IN, 1.0A, 1/4STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, FUNCTION COMPATIBLE *5, PIN COMPATIBLE *5

BD6290EFV PARA IN, 0.8A, 1/4STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, 4kV, FUNCTION COMPATIBLE *1

BD63960EFV PARA IN, 1.5A, 1/2STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, 4kV, Short Protection, FUNCTION COMPATIBLE *6, PIN COMPATIBLE *4

BD63940EFV PARA IN, 1.2A, 1/2STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, 4kV, Short Protection, FUNCTION COMPATIBLE *6, PIN COMPATIBLE *4

BD63621MUV CLK IN, 2.0A, 1/4STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, Short Protection

BD63620AEFV CLK IN, 2.0A, 1/4STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, Short Protection, FUNCTION COMPATIBLE *3, PIN COMPATIBLE

BD63610AEFV CLK IN, 1.0A, 1/4STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, Short Protection, FUNCTION COMPATIBLE *3, PIN COMPATIBLE

BD63801EFV CLK IN, 0.8A, 1/2STEP, PWM, Thin PKG, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO, 4kV, Short Protection, FUNCTION COMPATIBLE *3, PIN COMPATIBLE

BD60223FP CLK IN, 1.5A, 1/16STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO

BD63888AEKV CLK IN, 1.5A, 1/4STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO

BD68888AEKV PARA IN, 1.5A, 1/4STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO

BD63888MUV CLK IN, 1.2A, 1/4STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO

BD68888MUV PARA IN, 1.65A, 1/4STEP, PWM, SMALL SIZE POWER PKG, ONE POWER, T.S.D., A O.C.P., UVLO, OVLO

*1 BD6395FP, BD6393FP, 和BD6290EFV功能兼容。
*2 BD6395FP和BD6393FP引脚兼容。
*3 BD63620AEFV, BD63610AEFV, 和BD63801EFV功能兼容。
*4 BD63960EFV和BD63940EFV引脚兼容。
*5 BD68620EFV和BD68610EFV功能兼容。
*6 BD63960EFV和BD63940EFV功能兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD6395FP	16 to 28	1.5	3.0	2.0	0.8	1.2	HSOP25
BD6393FP	16 to 28	1.2	3.0	2.0	0.8	1.5	HSOP25
BD68620EFV	19 to 28	2.0	1.3	2.0	0.8	0.95	HTSSOP-B24
BD68610EFV	19 to 28	1.0	1.3	2.0	0.8	1.8	HTSSOP-B20
BD6290EFV	19 to 28	0.8	3.0	2.0	0.8	2.8	HTSSOP-B24
BD63960EFV	19 to 28	1.5	2.7	2.0	0.8	1.1	HTSSOP-B24
BD63940EFV	19 to 28	1.2	2.7	2.0	0.8	1.4	HTSSOP-B24
BD63621MUV	8 to 28	2.0	2.5	2.0	0.8	0.49	VQFN028V5050
BD63620AEFV	19 to 28	2.0	1.3	2.0	0.8	0.95	HTSSOP-B24
BD63610AEFV	19 to 28	0.8	1.3	2.0	0.8	1.8	HTSSOP-B20
BD63801EFV	19 to 28	0.8	2.7	2.0	0.8	2.8	HTSSOP-B24
BD60223FP	8 to 28	1.5	2.5	2.0	0.8	0.55	HSOP25
BD63888AEKV	8 to 28	1.5	5.0	2.0	0.8	1.0	HTQFP48V
BD68888AEKV	8 to 28	1.5	5.0	2.0	0.8	1.0	HTQFP48V
BD63888MUV	8 to 28	1.2	5.0	2.0	0.8	1.0	VQFN036V6060
BD68888MUV	8 to 28	1.65	5.0	2.0	0.8	1.0	VQFN036V6060

图标说明
CLK IN 控制信号输入 CLK-IN型
PARA IN 控制信号输入 PARALLEL-IN型
SPI SPI BUS 接口
Iomax. 0.8A / 1.0A / 1.2A / 1.35A / 1.5A / 1.65A / 2.0A / 2.5A / 3.0A / 4.0A 最大输出电流
1/2STEP / 1/4STEP / 1/8STEP / 1/16STEP STEP
Constant Current PWM 恒流 PWM
Thin PKG 薄型封装
FW/RW Switching 可以切换正转和反转
SMALL SIZE POWER PKG 小尺寸功率封装
High Power Package 大功率封装
DECAY SW SLOW/FAST/MIX 衰减转换功能
PIN COMPATIBLE 引脚与其他厂家兼容轻松置换

支持μ-step的36V耐压系列 步进电机驱动器

BD63860EFV

BD63510AEFV

BD63511EFV

BD63520AEFV

BD63521EFV

BD63524AEFV

BD63525AEFV

BD63740FM

*1 BD63510AEFV, BD63520AEFV和BD63525AEFV功能兼容。
*2 BD63511AEFV和BD63521AEFV功能兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD63860EFV	16 to 28	2.5	4.0	2.0	0.8	0.8	HTSSOP-B28
BD63510AEFV	8 to 28	1.0	2.5	2.0	0.8	1.75	HTSSOP-B28
BD63511EFV	8 to 28	1.0	2.5	2.0	0.8	1.75	HTSSOP-B28
BD63520AEFV	8 to 28	2.0	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63521EFV	8 to 28	2.0	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63524AEFV	8 to 28	2.5	2.5	2.0	0.8	0.35	HTSSOP-B28
BD63525AEFV	8 to 28	2.5	2.5	2.0	0.8	0.35	HTSSOP-B28
BD63740FM	8 to 28	4.0	2.0	2.0	0.8	0.28	HSOP-M36

低电压系列 步进电机驱动器 用于微型和便携式打印机

BD6382EFV

BD6381EFV

BD6380EFV

Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}	V_M			High Level	Low Level		
BD6382EFV	3.0 to 5.5	5.5 to 13.5	0.8	1.6	2.0	0.8	1.2	HTSSOP-B24
BD6381EFV	2.5 to 5.5	6.0 to 13.5	1.2	1.6	2.0	0.8	1.0	HTSSOP-B24
BD6380EFV	2.5 to 5.5	4.0 to 13.5	0.8	1.6	2.0	0.8	1.2	HTSSOP-B24

40V耐压系列 步进电机驱动器

BD63401EFV

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD63401EFV	8 to 33	1.35	2.0	2.0	0.8	1.0	HTSSOP-B20

45V耐压系列 步进电机驱动器

BD6425EFV

BD6423EFV

BD6422EFV

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD6425EFV	19 to 42	1.5	2.0	2.0	0.8	1.1	HTSSOP-B28
BD6423EFV	19 to 42	1.0	2.0	2.0	0.8	2.0	HTSSOP-B24
BD6422EFV	19 to 42	1.0	2.0	2.0	0.8	2.0	HTSSOP-B24

50V耐压系列 步进电机驱动器

BD64220EFV

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD64220EFV	8 to 46.2	2.0	2.0	2.0	0.8	0.65	HTSSOP-B28

36V耐压系列 单极步进电机驱动器

BM6343FS-Z

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BM6343FS-Z	8 to 28	3.0	5.0	2.0	0.8	0.10	SSOP-A54_36

O.C.P 内置过电流保护电路　UVLO 内置低电压保护电路　OVLO 内置过电压保护电路　4kV 8kV 静电耐压　Short Protection 相邻引脚短路保护　ONE POWER 内置稳压器实现单电源系统　T.S.D 内置温度保护电路
FUNCTION COMPATIBLE 功能兼容　STANDBY 0μA 待机电流 0μA　-40℃ +85℃ 工作温度范围　Protection IC逆装保护

车载用40V耐压 步进电机驱动器

BD63800MUF-C

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package	Automotive Grade AEC-Q100
	V_{CC}			High Level	Low Level			
BD63800MUF-C	6 to 28	1.21	3.5mA	2.0	0.8	0.75	VQFN32FBV050	YES

三相无刷电机驱动器

带速度控制的三相无刷电机预驱动器

BD6762FV

BD63030EKV-C

Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage		PWM Frequency (kHz)	Package
					H Level	L Level	Upper (V)	Lower (V)		
BD6762FV	36	16 to 28	−25 to +75	17	2.2	0.8	V_{CC}+6.8	10.8	16	HTSSOP-B24

Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage V_{CC}=6.5V		PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					H Level	L Level	Upper (V)	Lower (V)				
BD63030EKV-C	50	6.5 to 18.0	−40 to +125	18	3.8	1.9	2×V_{CC}−1.0	5.5	20	HTQFP64AV	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

三相无刷电机预驱动器

BD6761FS

BD63001AMUV

BD63002AMUV

BM62300MUV

BD63003MUV

BD67891MUV

BD16805FV-M

BM64070MUV

BM64300MUV

Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage (V)		PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					H Level	L Level	Upper	Lower				
BD6761FS	36	16 to 28	−35 to +75	15.0	2.2	0.8	V_{CC}+6	10.5	15	SSOP-A32	—	—
BD63001AMUV	33	4.5 to 5.5/6 to 28	−40 to +85	2.5	2.0	0.8	V_{CC}−0.2	9.5	20	VQFN024V4040	—	—
BD63002AMUV	33	8.0 to 26.4	−40 to +85	2.5	2.0	0.8	V_{CC}+7	5.0	External IN	VQFN028V5050	—	—
BM62300MUV	33	8 to 28	−40 to +105	14	V_{VREG50}−1.2	0.8	V_G−0.1	0.1	40	VQFN032V5050	—	—
BD63003MUV	40	10.8 to 26.4	−40 to +85	4.5	2.0	0.8	V_{CC}+10*2	10*2	External IN	VQFN032V5050	—	—
BD67891MUV	45	20 to 40	−25 to +85	2.5	2.0	0.8	VMM−7.8	7.8	External IN	VQFN032V5050	—	—
BD16805FV-M	60	8 to 18	−40 to +110	15.2	3.0	1.0	2×V_{CC}−0.5	8.0	25	SSOP-B40	FSs	YES
BM64070MUV	100	28 to 77	−40 to +105	6.4	2.8	0.8	V_G−0.1	0.1	90	VQFN040V6060	—	—
BM64300MUV	100	28 to 63	−40 to +105	13	V_{VREG50}−1.2	0.8	V_G−0.1	0.1	40	VQFN040V6060	—	—

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。
*2 恒流驱动型

图标说明
CLK IN 控制信号输入 CLK-IN型
SERVO 内置伺服电路
SPI SPI BUS 接口
1.2A 最大输出电流
36V MAX. 40V MAX. 60V MAX. 100V MAX. 耐压
120° SLOPE PWM 120° PWM 180° PWM 输出通电方式
1/32 STEP STEP
Constant Current PWM 恒流 PWM
FW/RW Switching 可以切换正转和反转
External FET N/N 外置输出段FET 上侧：Nch/下侧：Nch
External FET P/N 外置输出段FET 上侧：Pch/下侧：Nch
DMOS DMOS输出
FG AMP. Built-IN 内置FG放大器
HYS AMP. Built-IN 内置磁滞放大器
ONE POWER 内置稳压器实现单电源系统
T.S.D. 内置温度保护电路
SHORT BRAKE 内置短路制动
Motor lock protection 内置电机锁定保护电路
O.C.P 内置过电流保护电路
V O.V.P 内置过电压保护电路
V U.V.P 内置输出低电压保护电路
UVLO 内置低电压保护电路
OVLO 内置过电压保护电路
Short Protection 相邻引脚短路保护

三相无刷电机驱动器

BD63005AMUV
BD63006MUV
BD63007MUV
BD63015EFV
BD63035EFV-M
BD16852EFV-C

Part No.	Max Voltage (V)	Supply Voltage (V)	Output Current (A)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						H Level	L Level					
BD63005AMUV	33	10 to 28	2	−25 to +85	4.4	2.0	0.8	0.17	External IN	VQFN040V6060	—	—
BD63006MUV	33	8 to 28	1.5	−40 to +85	4.4	2.0	0.8	0.8	External IN	VQFN024V4040	—	—
BD63007MUV	33	8 to 28	3	−25 to +85	4.4	2.0	0.8	0.17	External IN	VQFN040V6060	—	—
BD63015EFV	36	8 to 28	1.5	−40 to +105	8	2.0	0.8	0.6	External IN	HTSSOP-B20	—	—
BD63035EFV-M	36	8 to 28	1.5	−40 to +105	8	2.0	0.8	0.6	22.7	HTSSOP-B20	FSs	YES
New BD16852EFV-C	40	5.5 to 18.0	3.2	−40 to +125	5	—	—	0.4	20	HTSSOP-B28	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

风扇电机驱动器

5V单相全波风扇电机驱动器

BH6766FVM
BD6965NUX
BU6909AGFT
BU69090NUX

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BH6766FVM	2.0 to 6.0	630	CMOS	Upper and Lower 0.6 (I_O=250mA)	—	1.3	—	MSOP8
BD6965NUX	2.0 to 5.5	800	CMOS	Upper and Lower 0.4 (I_O=250mA)	Direct PWM	—	1 : 10	VSON008X2030
BU6909AGFT	1.8 to 5.5	800	CMOS	Upper and Lower 0.16 (I_O=200mA)	Direct PWM	Include Hall sensor	1 : 10	TSSOF6
BU69090NUX	1.8 to 5.5	800	CMOS	Upper and Lower 0.16 (I_O=200mA)	Direct PWM	Include Hall sensor	1 : 10	VSON008X2030

标准单相全波风扇电机驱动器

BD6981FVM
BD6982FVM
BD6967FVM
BD6968FVM
BD6962FVM
BD6964FVM
BD6961F
BD6964F
BD69830FV

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD6981FVM	2.8 to 16.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	—	1.2	1 : 6	MSOP8
BD6982FVM	2.8 to 16.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	—	1.2	1 : 6	MSOP8
BD6967FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	DC/Direct PWM	1.2	1 : 10	MSOP10
BD6968FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	DC/Direct PWM	1.2	1 : 10	MSOP10
BD6962FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	MSOP8
BD6964FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	MSOP8
BD6961F	3.3 to 14.0	1,000	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	SOP8
BD6964F	3.3 to 14.0	1,000	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	SOP8
BD69830FV	6.0 to 28.0	900	DMOS	Upper and Lower 0.6 (I_O=200mA)	Direct PWM	1.2	1 : 30	SSOP-B14

5V IN / 12V IN / 24V IN 电源电压兼容
250 / 300 / 350 CLASS 稳定旋转时能够流向电机的电流估计值
HALL Sensor 内置霍尔元件
FG RPM脉冲信号输出
HALL 内置霍尔元件用电源电压
SPEED CONTROL 可控制转速度
LOCK 不需要电机锁定检测所需的外部电容器
LOCK 电机锁定检测功能
ALARM 锁定警报信号输出
START UP 低占空比状态下可以启动电机
SENSOR LESS DRIVE 无需霍尔传感器检测电机转子位置的驱动方式
SOFT S/W 有助于软开关、静音

高性能单相全波风扇电机驱动器

BD6971FV
BD6994FV
BD6995FV
BD61243FV
BD61245EFV
BD61248NUX
BD69730FV
BD69740FV
BD61250MUV
BD61251FV

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD6971FV	3.5 to 17.0	1,000	DMOS	Upper and Lower 0.6 (I_O=200mA)	DC/PWM	1.3	1 : 10	SSOP-B14
BD6994FV	4.5 to 17.0	1,200	DMOS	Upper and Lower 0.6 (I_O=400mA)	DC/PWM	1.25	1 : 10	SSOP-B16
BD6995FV	4.3 to 17.0	1,200	DMOS	Upper and Lower 0.6 (I_O=400mA)	DC	1.25	1 : 10	SSOP-B16
BD61243FV	5.5 to 16.0	1,200	DMOS	Upper and Lower 0.4 (I_O=400mA)	DC/PWM	1.25	1 : 10	SSOP-B14
BD61245EFV	4.0 to 16.0	1,800	DMOS	Upper and Lower 0.2 (I_O=400mA)	DC/PWM	–	1 : 10	HTSSOP-B16
BD61248NUX	4.5 to 16.0	1,200	DMOS	Upper and Lower 0.2 (I_O=200mA)	PWM	–	1 : 10	VSON010X3030
BD69730FV	4.3 to 17.0	10	Pre-Driver	–	DC/PWM	1.26	1 : 20	SSOP-B16
BD69740FV	4.3 to 17.0	10	Pre-Driver	–	DC/PWM	1.26	1 : 20	SSOP-B16
BD61250MUV	4.5 to 36.0	10	Pre-Driver	–	DC/PWM	–	1 : 20	VQFN024V4040
BD61251FV	4.5 to 16.0	10	Pre-Driver	–	PWM	–	1 : 20	SSOP-B16

双相半波风扇电机驱动器

BA6406F

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Zenner Diode Clamp Voltage (V)	Output Clamp Voltage (V)	Lock Time Ratio	Package
BA6406F	4.0 to 28.0	70	Pre-Driver	–	–	–	–	–	1 : 4.5	SOP8

三相全波风扇电机驱动器

BD67173NUX
BD6326ANUX
BD63282EFV
BD63242EFV
BD63242FV
BD63241FV
BD63251MUV

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD67173NUX	2.2 to 5.5	700	CMOS	Upper and Lower 0.25 (I_O=250mA)	PWM	–	1 : 5	VSON010X3030
BD6326ANUX	2.2 to 5.5	700	CMOS	Upper and Lower 0.25 (I_O=250mA)	PWM	–	1 : 5	VSON010X3030
BD63282EFV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I_O=300mA)	DC/PWM	–	1 : 2, 1 : 5, 1 : 10	HTSSOP-B20
BD63242EFV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I_O=300mA)	DC/PWM	–	Setting of SOSC-pin	HTSSOP-B16
BD63242FV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I_O=300mA)	DC/PWM	–	Setting of SOSC-pin	SSOP-B16
BD63241FV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.24 (I_O=300mA)	PWM	1.25	1 : 5	SSOP-B16
BD63251MUV	5.5 to 15.0	10	Pre-Driver	–	PWM	1.25	1 : 10	VQFN024V4040

图标说明
5V IN / 12V IN / 24V IN 电源电压兼容
350 / 400 / 450 / 800 MAX CLASS 稳定旋转时能够流向电机的电流估计值
PRE DRIVER 小型表面安装封装
FG RPM脉冲信号输出
SENSOR LESS DRIVE 无需霍尔传感器检测电机转子位置的驱动方式
ONE HALL DRIVE 驱动1个用于检测电机转子位置的霍尔传感器的方式
THREE HALL DRIVE 驱动3个用于检测电机转子位置的霍尔传感器的方式
SOFT S/W 有助于软开关、静音
PWM 150° / PWM 180° 输出通电方式
HALL 内置霍尔元件用电源电压
SPEED CONTROL 可控制转速度

三相无刷风扇电机驱动器 家电用

BM6241FS 250V MAX. Iomax. 2.0A — T.S.D. UVLO A O.C.P.

BM6242FS 600V MAX. Iomax. 1.5A — T.S.D. UVLO A O.C.P.

BM6243FS 600V MAX. Iomax. 2.5A — T.S.D. UVLO A O.C.P.

BM6244FS 250V MAX. Iomax. 2.0A — T.S.D. UVLO A O.C.P. IO LIMIT LOCK FG

BM6245FS 600V MAX. Iomax. 1.5A — T.S.D. UVLO A O.C.P. IO LIMIT LOCK FG

BM6246FS 600V MAX. Iomax. 2.5A — T.S.D. UVLO A O.C.P. IO LIMIT LOCK FG

BM6247FS 250V MAX. Iomax. 2.0A — T.S.D. UVLO A O.C.P. IO LIMIT LOCK FG

BM6248FS 600V MAX. Iomax. 1.5A — T.S.D. UVLO A O.C.P. IO LIMIT LOCK FG

BM6249FS 600V MAX. Iomax. 2.5A — T.S.D. UVLO A O.C.P. IO LIMIT LOCK FG

BM6258FS 600V MAX. Iomax. 1.5A — T.S.D. UVLO A O.C.P. IO LIMIT LOCK FG

Part No.	Control	Output Device	Rated Voltage (V)	Output Current (A)	Output ON Resistance (Ω)	Diode Forward Voltage (V)	FG Conversion Ratio	Package
BM6241FS	6 inputs	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_23
BM6242FS	6 inputs	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_23
BM6243FS	6 inputs	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_23
BM6244FS	120°	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_36A
BM6245FS	120°	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_36A
BM6246FS	120°	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_36A
BM6247FS	180° (Sinusoidal)	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_36A
BM6248FS	180° (Sinusoidal)	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_36A
BM6249FS	180° (Sinusoidal)	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_36A
BM6258FS	180° (Sinusoidal)	MOSFET	600	1.5	2.7	1.1	15:12	SSOP-A54_36A

三相无刷风扇电机控制器 家电用

Part No.	Supply Voltage (V)	Commutation Logic	Control Voltage Input (V)	Phase Control (deg)	FG Conversion Ratio	Package
New BD62012BFS	10.0 to 18.0	150°	2.1 to 5.4	0 to +30	12 : 12	SSOP-A24
New BD62017BFS	10.0 to 18.0	180° (Sinusoidal)	2.1 to 5.4	0 to +40	15 : 12	SSOP-A24
New BD62018BFS	10.0 to 18.0	180° (Sinusoidal)	2.1 to 5.4	0 to +40	12 : 12	SSOP-A24

脉冲率转换器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Input Frequency (kHz)	Conversion Ratio	Package
BU6821G	4.5 to 5.5	0.5	0.005 to 5	15 : 12	SSOP5
BU6823G	4.5 to 5.5	0.5	0.005 to 5	21 : 12	SSOP5

LOCK 不需要电机锁定检测所需的外部电容器 | LOCK 电机锁定检测功能 | ALARM 锁定警报信号输出 | MIN rpm 最小转动速度设定 | START SUP 低占空比状态下可以启动电机 | T.S.D. 内置温度保护电路 | IO LIMIT 可设定输出电流限制值

SOFT START 软启动功能 | Built-in 内置逆接连接器时防止IC破坏的二极管 | 250V MAX. 600V MAX. 耐压 | Iomax. 1.5A Iomax. 2.0A Iomax. 2.5A 最大输出电流 | UVLO 内置低电压保护电路 | A O.C.P. 内置过电流保护电路

打印机用驱动器

打印机用有刷电机驱动器

Part No.	Supply Voltage (V)	Output Current (A)	Output Current Peak (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
					H Level	L Level		
BD62210AEFV	8.0 to 28.0	1.0	1.5	2.5	2.0	0.8	1.9	HTSSOP-B28
BD62220AEFV	8.0 to 28.0	2.0	2.8	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63130AFM	8.0 to 46.2	3.0	5.0	2.5	2.0	0.8	0.55	HSOP-M36
BD63150AFM	8.0 to 46.2	5.0	6.0	2.5	2.0	0.8	0.3	HSOP-M36

纸传送或运输用双极型 步进电机驱动器

还备有其它可用于打印机和工业设备的步进电机驱动器。

Part No.	Power Supply (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
				High Level	Low Level		
BD63801EFV	19.0 to 28.0	0.8	2.7	2.0	0.8	2.8	HTSSOP-B24
BD68715EFV	19.0 to 28.0	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD63715AEFV	19.0 to 28.0	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28

纸传送用三相无刷电机预驱动器 面向LBP、PPC

Part No.	V_{CC} (V)	Power Supply (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External Threshold Voltage (V)		PWM Frequency (kHz)	Package
					H Level	L Level	Upper	Lower		
BD6761FS	36	16.0 to 28.0	−35 to +75	15.0	2.2	0.8	V_{CC}+6	10.5	15	SSOP-A32
BD6762FV	36	16.0 to 28.0	−25 to +75	17.0	2.2	0.8	V_{CC}+6.8	10.8	16	SSOP-B40

内置开关稳压器的系统电机驱动器(H桥＋SWREG 2ch)

Part No.	V_{CC} (V)	Motor Rated Output Current	H Bridge ch	SW REG1 Output Current Range (A)	SW REG2 Output Current Range (A)	Standby Current (μA) (Max)	Package
BD64547MUV	50	2.0 A/Phase	2	0 to 2.0	0 to 1.4	100	VQFN048V7070
BD64008MUV	50	2.0 A/Phase	1 (2ch parallel use)	0 to 2.0	0 to 1.4	100	VQFN048V7070

多棱镜用三相无刷电机驱动器 面向LBP, PPC：输出电流限值为电流限制电压除以外接输出电流检测用电阻 (RNF电阻) 的值。
打印机用有刷电机驱动器：BD62210AEFV和BD62220AEFV引脚兼容。

相机用驱动器

相机用5ch系统镜头驱动器

Part No.	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Drived Motor, Driving System, and Output ON Resistance (Ω))					Input I/F	Reference Voltage Output for Output Setting Current (V)	Package (mm)
				AF	Zoom	Iris	Shutter			
BD6758KN	2.5 to 5.5	0.8	e.g.	STM (1, 2ch) FULL ON 1.2	DCM (3ch) FULL ON 1.2	DCM or VCM (4ch) FULL ON 1.2	VCM (5ch) Constant current 1.0	Parallel	1.2 (±3%)	VQFN36 6.2×6.2, H=Max 0.95

相机用6ch系统镜头驱动器

Part No.	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Drived Motor, Driving System, and Output ON Resistance (Ω))						Input I/F	Reference Voltage Output For Output Setting Current (V)	Package (mm)
				AF	Zoom	Iris	Shutter	Barrier			
BD6373GW	2.5 to 5.5	0.8	e.g.	STM (1, 2ch) FULL ON 1.2	STM (3, 4ch) FULL ON 1.2	DCM or VCM (5ch) FULL ON 1.2	VCM (6ch) FULL ON 1.2	–	Parallel	–	UCSP75M2 2.6×2.6, H=Max 0.85
BD6753KV	4.5 to 10.5 (1, 2ch) 2.0 to 10.5 (3 to 6ch)	0.8	e.g.			DCM or VCM (5ch) PWM (±3%) 1.2	VCM (6ch) PWM (±3%) 1.2	–	Parallel + Serial	0.9 (±10%)	VQFP48C 9.0×9.0, H=Max 1.60

相机用1ch/2ch镜头驱动器

Part No.	ch	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Drived Motor, Driving System, and Output ON Resistance (Ω))					Turn on Time	Turn off Time (ns)	Control Frequency (kHz) (Max)	Package (mm)
					Cleaner	AF	Zoom	Iris	Shutter			
BD65492MUV	2	1.8 to 16.0	1.0	e.g.	—	STM (2ch) FULL ON 0.9	—	—	—	200ns (Including 80ns to Prevent from overlap current.)	80	500	VQFN024V4040 4.0×4.0, H=Max 1.0
BD6735FV	2	2.0 to 8.0	1.0	e.g.	—	—	—	STM (2ch) FULL ON 1.0	—	300ns (Including 90ns to Prevent from overlap current.)	100	100	SSOP-B20 6.5×6.4, H=Max 1.25
BD6376GUL	1	2.0 to 9.0	1.0	e.g.	—	—	DCM (1ch) FULL ON 0.45	—	—	200ns (Including 80ns to Prevent from overlap current.)	60	200	VCSP50L1 1.6×1.6, H=Max 0.55
BD65491FV	1	1.8 to 16.0	1.2 Peak 4.0	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.35	150ns (Including 80ns to Prevent from overlap current.)	50	500	SSOP-B16 6.5×5.0, H=Max 1.25
BD6736FV	1	2.0 to 9.0	1.0 Peak 3.2	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.35	1000ns (Including 800ns to Prevent from overlap current.)	100	100	SSOP-B20 6.5×6.4, H=Max 1.25
BD65499MUV	1	4.0 to 27.0	0.5 Peak 2.0	e.g.	Piezo (1ch) FULL ON 0.6	—	—	—	—	150ns (Including 80ns to Prevent from overlap current.)	50	300	VQFN028V5050 5.0×5.0, H=Max 1.0
BD65494MUV	1	2.0 to 9.0	1.0 Peak 2.5	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.55	200ns (Including 80ns to Prevent from overlap current.)	60	200	VQFN016V3030 3.0×3.0, H=Max 1.0
BD65496MUV	1	1.8 to 16.0	1.2 Peak 5.0	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.35	150ns (Including 80ns to Prevent from overlap current.)	50	500	VQFN024V4040 4.0×4.0, H=Max 1.0

STM : 步进电机, DCM : DC 电机，VCM : 音圈电机（“ Drive method examples of actuator ”为代表例，可研讨其他使用方法。）

相机用支持µ-step的系统镜头驱动器

Part No.	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Drived Motor, Driving System, and Output ON Resistance (Ω))						Input I/F	µ-step Resolution	Package (mm)
				AF	Zoom	Iris	Shutter	Others			
BU24020GU	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5	e.g. 1	STM (1, 2ch) µ-step (class-D) 1.5	STM (3, 4ch) µ-step (class-D) 1.5	—	—	—	3-wire serial	1024	VCSP85H2 2.6×2.6, H=Max 1.0
			e.g. 2		DCM (3ch) FULL ON (PWM) 1.5	VCM (4ch) FULL ON (PWM) 1.5	—	—			
BU24033GW	1.62 to 3.6 (Io) 2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) µ-step (class-D) 1.5	STM (3, 4ch) µ-step (class-D) 1.5	VCM (5ch) FULL ON (PWM) 1.0	VCM (6ch) constant current 1.0	—	3-wire serial	1024	UCSP75M3 3.0×3.0, H=Max 0.85
			e.g. 2		DCM (5ch) FULL ON (PWM+Speed control) 1.0	VCM (3ch) FULL ON (PWM) 1.5		DCM (4ch) FULL ON (PWM) 1.5			
BU24035GW	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) µ-step (class-D) 1.5	DCM (5ch) FULL ON (PWM+Speed control) 1.0	STM (3, 4ch) µ-step (class-D) 1.5	VCM (6ch) constant current 1.0	—	3-wire serial	1024	UCSP75M3 3.1×3.1, H=Max 0.85
			e.g. 2		DCM (3ch) FULL ON (PWM+Speed control) 1.5	VCM (5ch) FULL ON (PWM)/ constant current 1.0		VCM (4ch) FULL ON (PWM) 1.5			
BU24036MWV	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) µ-step (class-D) 2.0	DCM (5ch) FULL ON (PWM+Speed control) 1.0	STM (3, 4ch) µ-step (class-D) 1.5	VCM (6ch) constant current 1.0	—	3-wire serial	1024	UQFN040V5050 5.0×5.0, H=Max 1.0
			e.g. 2		DCM (3ch) FULL ON (PWM+Speed control) 1.5	VCM (5ch) FULL ON (PWM)/ constant current 1.0		VCM (4ch) FULL ON (PWM) 1.5			

STM : 步进电机, DCM : DC 电机，VCM : 音圈电机（“ Drive method examples of actuator ”为代表例，可研讨其他使用方法。）

便携式相机模块用驱动器

单向型音圈电机用两线串行(I²C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (mA)	Driver Output Low Voltage (V)	Input I/F	Ringing Compensation	Temperature Protection	Back side coating	Package (mm)
BU64243GWZ	2.3 to 4.8	Drive AF using voice coil motor	0.25	Constant current (±10%)	130	0.15 (V_{CC}=3V, I_O=100mA)	I²C Fm compatible	ISRC	✓	with	UCSP35L1 0.77×1.3, H=Max 0.40
BU64244GWZ	2.3 to 4.8	Drive AF using voice coil motor	0.25	Constant current (±10%)	130	0.15 (V_{CC}=3V, I_O=100mA)	I²C Fm compatible	ISRC	✓	with	UCSP35L1 0.77×1.3, H=Max 0.36
BU64291GWZ	2.3 to 4.8	Drive AF using voice coil motor	0.5	Constant current (±5%)	100	0.25 (V_{CC}=3V, I_O=100mA)	I²C Fm compatible	ISRC	✓	without	UCSP30L1 0.77×1.37, H=Max 0.33
BU64292GWZ	2.5 to 3.6	Drive AF using voice coil motor	0.25	Constant current (±5%)	125	0.28 (V_{DD}=3V, I_O=100mA)	I²C Fm+ compatible	ISRC	✓	without	UCSP25L1 0.68×1.08, H=Max 0.30
BU64982GWZ	2.5 to 3.6	Drive AF using voice coil motor	0.25	Constant current (±5%)	125	0.28 (V_{DD}=3V, I_O=100mA)	I²C Fm+ compatible	ISRC	✓	with	UCSP30L1A 0.68×1.08, H=Max 0.33

双向型音圈电机用两线串行(I²C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (A)	Driver Output ON Resistance (Ω)	Input I/F	Ringing Compensation	Temperature Protection	Back side coating	Package (mm)
BU64295GWZ	2.3 to 4.8	Drive AF using voice coil motor	1	Constant current (±5%)	±100	2.0 (V_{DD}=3V)	I²C Fm compatible	ISRC	✓	without	UCSP30L1 0.77×1.2, H=Max 0.33
BU64296GWX	2.3 to 4.8	Drive AF using voice coil motor	1	Constant current (±5%)	±100	2.0 (V_{DD}=3V)	I²C Fm compatible	ISRC	✓	without	UCSP16X1 0.77×1.2, H=Max 0.20
BU64297GWZ	2.3 to 4.8	Drive AF using voice coil motor	1	Constant current (±5%)	±100	2.0 (V_{DD}=3V)	I²C Fm compatible	ISRC	✓	with	UCSP35L1 0.77×1.2, H=Max 0.36
BU64253GWZ	2.5 to 4.5	Drive AF using voice coil motor	1	Constant current (±5%)	±100	3.2 (V_{DD}=3V)	I²C Fm+ compatible	ISRC	✓	with	UCSP30L1A 0.72×1.13, H=Max 0.33
BU64985GWZ	1.6 to 1.98	Drive AF using voice coil motor	1	Constant current (±5%)	±60	1.3 (V_{DD}=1.8V)	I²C Fm+ compatible	ISRC	✓	with	UCSP35L1 0.77×1.2, H=Max 0.36
BU64987GWZ	1.6 to 1.98	Drive AF using voice coil motor	1	Constant current (±5%)	±100	1.3 (V_{DD}=1.8V)	I²C Fm+ compatible	ISRC	✓	with	UCSP35L1 0.77×1.2, H=Max 0.36

压电执行机构用两线串行(I²C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V) V_{CC}	Applications		ch	Drive System	Driver Output Max Current (mA)	Driver Output ON Resistance (Ω)	Input I/F	Base Clock	Temperature Protection	Power Save Function	Back side coating	Package (mm)
BU64562GWZ	2.3 to 4.8	e.g. 1	Drive AF using piezo actuator	1	FULL ON	500	1.4 (V_{CC}=3V)	I²C Fm compatible	Built-in 15MHz	✓	✓	without	UCSP30L1 1.90×0.77, H=Max 0.33
		e.g. 2	Drive Zoom using piezo actuator										

步进电机用并行接口镜头驱动器

Part No.	Supply Voltage (V)	Applications		ch	Drive System	Driver Output Max Current (mA)	Driver Output ON Resistance (Ω)	Input I/F	Input Mode Selection Terminal	Built-In Wave Sloping Comparator	Temperature Protection	Power Save Function	Back side coating	Package (mm)
BD6360GUL	2.3 to 5.5	e.g. 1	Drive AF using piezo actuator	2	FULL ON	500	1.0 (V_{CC}=3V, I_O=0.4A)	Parallel	✓	✓	✓	✓	with	VCSP50L2 2.1×2.1, H=Max 0.55
		e.g. 2	Drive Zoom using piezo actuator											

LED驱动器

LED驱动器 P.75

LED驱动器

升压LED驱动器

外置FET 白色LED驱动器

Part No.	Supply Voltage (V)	Number of LED	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD6583MUV-A	2.7 to 22.0	Max 72 12series×6strings in parallel (V_F restrictions exist)	Max 43.0	1	PWM signal from the PWMPOW/PWMDRV terminal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD9486F	9 to 18	Max About 120 120series×1string in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP16
BD9411F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9413F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9483F	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP24
BD9483FV	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SSOP-B24
BD9416F	9 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP24
BD9416FS	9 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SSOP-A24
BD9479FV	9 to 35	Max About 96 12series×8strings in parallel	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SSOP-B40
BD9408FV	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 2.00	PWM signal Analog signal	Pin logic setting	SSOP-B14
BD9409F	11.5 to 35.0	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP16
BD9420F	9 to 35	Max 72 12series×6strings in parallel (V_F restrictions exist)	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP28
BD9421F	9 to 35	Max 72 12series×6strings in parallel (V_F restrictions exist)	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP24

内置FET 白色LED驱动器

Part No.	Supply Voltage (V)	Number of LED	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD60A00NUX	2.7 to 5.5	Max 10 10series×1string in parallel	Max 40.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD60A60NUX	2.7 to 5.5	Max 6 6series×1string in parallel	Max 26.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD65B60GWL	2.7 to 5.5	Max 16 8series×2strings in parallel	Max 28.5	1.1/0.6	I²C BUS PWM signal Resistance switching at the ISET terminal	I²C BUS + PWM	UCSP50L1 1.4x1.8, H=Max 0.55
BD6586MUV	2.7 to 5.5	Max 24 6series×4strings in parallel	Max 24.0	1	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD65D00MUV	6 to 27	Max 40 10series×4strings in parallel	Internal FET Max 40.0 External FET Max 80.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN028V5050
BD6142AMUV	4.2 to 27	Max 80 10series×8strings in parallel	Max 41.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN024V4040
BD9394EFV	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HTSSOP-B24
BD9394FP	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HSOP20
BD93942F	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP16
BD9470AEFV	9 to 35	Max 72 18series×4strings in parallel	Max 40.0	0.1 to 0.5	PWM signal	Pin logic setting	HTSSOP-B28
BD9470AFM	9 to 35	Max 72 18series×4strings in parallel	Max 40.0	0.1 to 0.5	PWM signal	Pin logic setting	HSOP-M28
BD9397EFV	9 to 35	Max 84 14series×6strings in parallel	Max 50.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting	HTSSOP-B40
BD9422EFV	9 to 35	Max 84 14series×6strings in parallel	Max 60.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting I²C	HTSSOP-B40

内置FET 同步整流方式 白色LED驱动器

Part No.	Supply Voltage (V)	Number of LED	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD6071HFN	2.7 to 5.5	Max 3 3series×1string in parallel	Max 14.0	1	PWM signal from EN terminal	–	HSON8

LED相机闪光灯驱动器

Part No.	Supply Voltage (V)	Number of LED	Output Voltage (V)	Output Current	Switching Frequency (MHz)	Control Interface	Package (mm)
BD6164GUT	2.7 to 4.5	1 (Large current LED)	Max 4.7	52, 72mA (Torch mode) 260, 280, 300, 320mA (Flash mode)	4	I²C BUS	VCSP60N1 1.5×1.1, H=Max 0.675
BD7757MWX	2.7 to 5.0	Max 2 1 to 2series×1string in parallel (V_F restrictions exist) (large current LED)	Max 5.1	0 to 1.5A	2	UPIC*2	USON014X3020

LCD背光用LED驱动器

Part No.	Power Supply (V)	Boost FET	ch	Output Voltage (V)	Output Current (mA)	Switching Frequency (MHz)	PWM Dimming Ratio	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD83A04EFV-M	4.5 to 48.0	Internal	4	Max 50	Max 120/ch	0.2 to 2.4	20,000 : 1@100Hz	−40 to +125	HTSSOP-B24	FSs	YES
Nano BD82A26MUF-M	3.0 to 48.0	External	6	Max 50	Max 150/ch	0.2 to 2.4	20,000 : 1@100Hz	−40 to +125	VQFN32FBV050	FSs	YES

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*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。
*2 UPIC: Uni-Port Interface Control

Nano Nano Energy Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano技术是罗姆充分实现节能和小型化的创新型电源技术。
上述 Nano 标记为采用Nano Energy™ 超低功耗技术的产品。Nano Pulse Control™、Nano Energy™ 和Nano Cap™ 是ROHM Co.,Ltd.的商标或注册商标。

升压LED驱动器

车前灯用LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Maximum Input Voltage (V)	Output Current	Dimmer Mode	DC-DC	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18351EFV-M	4.5 to 65.0	High/Low Beam, DRL/Position, Turn, Fog	1	65	Depend on Extra parts	PWM/ Analog	Boost	−40 to +125	HTSSOP-B24	FSs	YES
BD18353EFV-M	5 to 65					PWM/ Analog 1, 2			HTSSOP-B20	FSs	YES
BD18353MUF-M	5 to 65								VQFN20FV3535	FSs	YES

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降压LED驱动器

DC-DC转换器型 降压LED照明驱动器

Part No.	Supply Voltage (V)	Switching Terminal Voltage (V)	Ron (Ω)	Operating Frequency (kHz)	Over Current Protection	Package
BM531Q11	9.0 to 35.0	250	0.93 (Typ)	Max 440	✓	DIP7AK
BD94062F	10.5 to 35.0	–	–	Max 800	✓	SOP16

PFC直流谐振型大屏幕用白色LED驱动器

Part No.	Supply Voltage (V)	Drive Method	Oscillation Frequency Variable (kHz)	Primary Brightness Control Method	Control Interface	Package
BD92111F	8.0 to 18.0	Half Bridge	30 to 200	PWM signal	Pin logic setting	SOP18

车前灯用LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Maximum Input Voltage (V)	Output Current	Dimmer Mode	DC-DC	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18395EFV-M	4.5 to 70.0	High/Low Beam, DRL/Position, Turn, Fog	1	70	2A	PWM/ Analog	Buck	−40 to +125	HTSSOP-B20	FSs	YES

车载用带SPI的2ch/3ch电流LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Maximum Input Voltage (V)	Output Current (mA)	DC-DC	Control Method	Oscillation Frequency (MHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD18397RUV-M	5.0 to 65.0	High/Low Beam, DRL/Position, Turn, Fog	2	60	3,200	Buck	SPI	programmable 0.2 to 2.25	HTSSOP-C48R	FSp	YES
New BD18398RUV-M	5.0 to 65.0	High/Low Beam, DRL/Position, Turn, Fog	3	60	4,800	Buck	SPI	programmable 0.2 to 2.25	HTSSOP-C48R	FSp	YES

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升降压LED驱动器

LCD背光用LED驱动器

Part No.	Power Supply (V)	Boost FET	ch	Output Voltage (V)	Output Current (mA)	Switching Frequency (MHz)	PWM Dimming Ratio	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD81A24EFV-M	4.5 to 35.0	Internal	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	−40 to +125	HTSSOP-B28	FSs	YES
BD81A24MUV-M								−40 to +125	VQFN28SV5050	FSs	YES
BD81A24MUF-M								−40 to +125	VQFN28FV5050	FSs	YES
BD81A44EFV-M		External						−40 to +125	HTSSOP-B28	FSs	YES
BD81A44MUV-M								−40 to +125	VQFN28SV5050	FSs	YES
BD81A74EFV-M								−40 to +125	HTSSOP-B28	FSs	YES
BD81A74MUV-M								−40 to +125	VQFN28SV5050	FSs	YES
BD81A76EFV-M			6					−40 to +125	HTSSOP-B30	FSs	YES

车前灯用LED驱动器

Part No.	Power Supply (V)	Application	ch	Rated Voltage (V)	Output Current	Dimmer Mode	DC-DC	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8381AEFV-M	5 to 30	Head Lamp/ DRL	1	50	Depend on extraparts	PWM/DC	Buck-Boost, Boost, Buck	−40 to +125	HTSSOP-B28	FSs	YES

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照明用LED驱动器

650V LED照明用AC-DC转换器

Part No.	Supply Voltage (V)	Input AC Voltage (Vac)	Built-in PFC Function	Built-in MOSFET	LED Average Current (mA)	Switching Frequency (kHz)	Package
BM520Q15F	8.9 to 26.0	80 to 275	–	✓	up to 200	20 to 200	SOP8
BM521Q25F	8.9 to 25.0	80 to 275	✓	✓	up to 200	20 to 300	SOP8
BD521GOFJ	8.9 to 25.0	80 to 275	✓	–	–	20 to 300	SOP-J8

无需电感(电荷泵)LED驱动器

白色LED驱动器

Part No.	Supply Voltage (V)	No. of LED	Charge Pump Step-up Circuit			Primary Brightness Control Method	Control Interface	Package
			Output Voltage (V)	Output Current (mA)	Pump Frequency			
BD1604MUV	2.7 to 5.5	1 to 4	Max 4.5	120	1MHz	PWM control via EN terminal Resistance switching at ISET terminal	Pin logic setting	VQFN016V3030
BD2606MVV		1 to 6	Max 4.7	120	250kHz/1kHz	Built-in 64-step current DAC (0.5 to 32.0mA)	I²C BUS	SQFN016V4040

时序转向灯专用LED Bypass开关(矩阵LED控制器)

时序亮灯控制

Part No.	Supply Voltage (V)	ch	Bypass Switch ON Resistance (mΩ)	Max Current (A)	Maximum Channel Voltage	Maximum LED String Voltage (V)	Maximum Number of IC Serial Connections	Lighting Mode	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18362EFV-M	5.5 to 60.0	8	230	1	9	48	2	Sequential/ Hazard	−40 to +125	HTSSOP-B28	FSs	YES
New BD18364EFV-M	5.5 to 45.0	8	300	0.8	13.5	depend on VIN voltage	1	Sequential/ Hazard/Animation	−40 to +125	HTSSOP-B30	FSs	YES

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恒流/串入并出LED驱动器

并行输出 LED驱动器

Part No.	Supply Voltage (V)	Number of LED	Constant Current Driver				Control Interface	Package
			Max Current Setting Method	Max Current	Channel-to-Channel Matching	Brightness Control		
BD1754HFN	2.7 to 5.5	1 to 4 (Parallel Connection)	Resistance change at ISET terminal	32mA (at an ISET resistance of 120kΩ)	Max 3% (at 1V LED pin voltage)	Built-in 64-step current DAC	UPIC*2	HSON8
BD2802GU		6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC	I²C BUS	VCSP85H2
BD2812GU		6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC/ Inductorless (Charge Pump)	I²C BUS	VCSP85H3

并行输出 车载用LED驱动器

Part No.	Supply Voltage (V)	Output Voltage (V)	Number of Output (ch)	Output Method	Max LED Current	Each Output Format	Other	Control Method	Max Clock Frequency (MHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD12801MUF-M	3.0 to 5.5	20	16	Constant Current	130mA/ch	Built-in 256-step current DAC	Built-in 8192-step PWM controll for all channels	SPI	5.0	VQFN48FAV070	FSs	YES
BD2808MUV-M		20	RGB×8 (24ch)	Constant Current	50mA/ch	Built-in 64-step current DAC for RGB	Built-in 256-step PWM control for all channels	2-Wire Serial	1.0	VQFN48MCV070	FSs	YES
New BD83812EFV-M		35	12	Open Drain	50mA/ch	ON/OFF	—	SPI	1.25	HTSSOP-B20	FSs	YES
New BD83816EFV-M		35	16	Open Drain	50mA/ch	ON/OFF	—	SPI	1.25	HTSSOP-B24	FSs	YES
BD8388FV-M		40	8	Open Drain	50mA/ch	ON/OFF	—	SPI	1.25	SSOP-B16	FSs	YES
BD8389FV-M		40	12	Open Drain	50mA/ch	ON/OFF	—	SPI	1.25	SSOP-B20	FSs	YES

点阵LED驱动器

Part No.	Supply Voltage (V)	LED Matrix	Max LED Current	Built-in Pattern		Matrix Data RAM	Mobile Light	PWM Dimming (step)	Current Setting (step)	Interface	Max Clock Frequency	Package (mm)
				Scroll	Slope							
BD26503GUL	2.7 to 5.5	7×17 119dots	30mA/Line	✓	✓	2pages	—	64	16	I²C BUS/SPI (2 address/—)	400kHz/13MHz	VCSP50L3 3.6×3.6, H=Max 0.55
BD26503KS2		7×17 119dots	30mA/Line	✓	✓	2pages	—	64	16	I²C BUS/SPI (2 address/—)	400kHz/13MHz	SQFP-T52
BU16501KS2		8×16 128dots	42.5mA/Line	—	—	1page	—	64	16	I²C BUS/SPI (2 address/—)	400kHz/13MHz	SQFP-T52

车载用LED源极驱动器

Part No.	Supply Voltage (V)	Application	ch	Driver	Maximum Input Voltage (V)	Maximum Output Current (mA)	Dimmer Mode	Accuracy of Current (%)	ISINK Terminal LED Open Detection Voltage (V)	Disable LED Open Detection Voltage (V)	Energy Sharing Control Voltage (V) (Typ)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18340FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/ DC (±5%)	±3 (T_a=25 to 125°C)	—	variable	—	−40 to +125	SSOP-B16	FSs	YES
BD18341FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/ DC (±12%)	±3 (T_a=25 to 125°C)	—	variable	—	−40 to +125	SSOP-B16	FSs	YES
BD18342FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM	±3 (T_a=25 to 125°C)	—	variable	—	−40 to +125	SSOP-B16	FSs	YES
BD18343FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	External PWM signal	±3 (T_a=25 to 125°C)	—	variable	—	−40 to +125	SSOP-B16	FSs	YES
BD18345EFV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/DC	±3 (T_a=25 to 125°C)	—	variable	—	−40 to +125	HTSSOP-B20	FSs	YES
BD18326NUF-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T_j=−40 to +150°C) ±5 (Output current: 240 to 600mA) (T_j=−40 to +150°C)	5.8	11.0	—	−40 to +150	VSON10FV3030	FSs	YES
BD18336NUF-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T_j=−40 to +150°C) ±5 (Output current: 240 to 600mA) (T_j=−40 to +150°C)	4.1	11.0	—	−40 to +150	VSON10FV3030	FSs	YES
BD18337EFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ ch	PWM	±10 (Output current: 50 to 100mA) (T_a=−40 to +125°C) ±5 (Output current: 100 to 150mA) (T_a=−40 to +125°C)	—	11.0	2.0	−40 to +125	HTSSOP-B16	FSs	YES
BD18347AEFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ ch	PWM	±10 (Output current: 50 to 100mA) (T_a=−40 to +125°C) ±5 (Output current: 100 to 150mA) (T_a=−40 to +125°C)	—	7.65	1.5	−40 to +125	HTSSOP-B16	FSs	YES
BD18347EFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ ch	PWM	±10 (Output current: 50 to 100mA) (T_a=−40 to +125°C) ±5 (Output current: 100 to 150mA) (T_a=−40 to +125°C)	—	7.65	2.0	−40 to +125	HTSSOP-B16	FSs	YES
BD18327EFV-M	6.0 to 18.0	2 wheeler Turn Indicator	1	Internal	50	1.5A	PWM	Load Switch Controller	—	—	—	−40 to +125	HTSSOP-B20	FSs	YES
BD8372EFJ-M	5.5 to 40.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	200	High Current/ Low Current	±3 (T_a=25°C)	—	—	—	−40 to +125	HTSOP-J8	FSs	YES
BD8372HFP-M	5.5 to 40.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	200	High Current/ Low Current	±3 (T_a=25°C)	—	—	—	−40 to +125	HRP7	FSs	YES
BD8374EFJ-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T_a=25°C)	—	—	—	−40 to +125	HTSOP-J8	FSs	YES
BD8374HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T_a=25°C)	—	—	—	−40 to +125	HRP7	FSs	YES
BD83732HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T_a=25°C)	—	7.65	—	−40 to +125	HRP7	FSs	YES
BD83733HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T_a=25°C)	—	11.0	—	−40 to +125	HRP7	FSs	YES
BD83740HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T_a=25°C)	—	—	—	−40 to +125	HRP7	FSs	YES

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*2 UPIC: Uni-Port Interface Control

显示用驱动器
TN/STN液晶显示用驱动器系列 P.78

TN/STN液晶显示用驱动器系列

LCD用 通用/段码驱动器

低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver (port)	PWM Gen.	Keyscan	Package
		seg.	com.	I/F Power Supply (V_{DD})	LCD Power Supply (VLCD)											
BU9796AMUV	48	12	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	2wire	–	–	–	–	–	–	VQFN024V4040
BU9796AFS	80	20	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	2wire	–	–	–	–	–	–	SSOP-A32
BU97941FV	104	26	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	–	–	4	–	–	SSOP-B40
BU9795AFV	108	27	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	SSOP-B40
BU97930MUV	108	27	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	4port	✓	1	1ch 8bit	–	VQFN040V6060
BU97931FV	112	28	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	5port	✓	1	1ch 8bit	–	SSOP-B40
BU97960MUV	120	15	8	2.5 to 6.0	2.5 to 6.0	−40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	–	–	–	–	–	VQFN028V5050
BU9795BKV	140	35	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	VQFP48C
BU9795ZKS2	140	35	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	SQFP-T52
BU9797AFUV	144	36	4	2.5 to 5.5		−40 to +85	1/4	1/3	2wire	–	–	–	–	–	–	TSSOP-C48V
BU97981MUV	168	42	4	1.8 to 3.6	3.3 to 5.5	−30 to +75	1/4, 1/3, Static	1/3	3wire	–	27port	✓	3	2ch 12bit	–	VQFN56AV8080
BU97981KV	196	49	4	1.8 to 3.6	3.3 to 5.5	−30 to +75	1/4, 1/3, Static	1/3	3wire	–	31port	✓	3	2ch 12bit	–	VQFP64
BU97981GU	196	49	4	1.8 to 3.6	3.3 to 5.5	−30 to +75	1/4, 1/3, Static	1/3	3wire	–	31port	✓	3	2ch 12bit	–	VBGA064T050A
BU9794AKV	200	50	4	2.5 to 5.5	2.5 to 5.5	−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	VQFP64
BU9799KV	200	50	4	2.5 to 5.5	2.5 to 5.5	−40 to +85	1/4	1/3, 1/2	2wire	✓	–	–	–	–	–	VQFP64
BU97501KV	204	51	4	2.7 to 6.0	4.5 to 6.0	−40 to +85	1/4, 1/3	1/3, 1/2	3wire+ KEYOUT	–	4port	–	–	–	5×6 Max 30Key	VQFP64
BU97950AFUV	280	35	8	2.5 to 6.0	2.5 to 6.0	−40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	–	–	–	–	–	TSSOP-C48V
BU97530KVT	445	89	5	2.7 to 6.0		−40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire+ KEYOUT	✓	9port (9ch PWM)	–	–	9ch 8bit	5×6 Max 30Key	TQFP100V

车载用低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver	PWM Gen.	Keyscan	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		seg.	com.	I/F Power Supply (V_{DD})	LCD Power Supply (VLCD)													
BU97601FV-M	116	29	4	2.7 to 6.0		−40 to +85	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	–	–	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU9797FUV-M	144	36	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	2wire	–	–	–	–	–	–	TSSOP-C48V	FSs	YES
BU97510CKV-M	216	54	4	2.7 to 6.0		−40 to +85	1/4, 1/3	1/3, 1/2	3wire	–	6port (6ch PWM)	–	–	6ch 6bit	–	VQFP64	FSs	YES
BU97520AKV-M	276	69	4	2.7 to 6.0		−40 to +85	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	–	6port (6ch PWM)	–	–	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97540KV-M	335	67	5	2.7 to 6.0		−40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	–	–	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97530KVT-M	445	89	5	2.7 to 6.0		−40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	–	–	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU97550KV-M	528	66	8	2.7 to 6.0		−40 to +85	1/8, 1/7, 1/5, 1/4, 1/3, Static	1/4, 1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	–	–	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91795MUF-M	48	12	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	–	–	–	–	–	–	VQFN24FV4040	FSs	YES
BU91796BMUF-M	80	20	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	–	–	–	–	–	–	VQFN32FBV050	FSs	YES
BU91796FS-M	80	20	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	–	–	–	–	–	–	SSOP-A32	FSs	YES
BU91600FV-M	116	29	4	2.7 to 6.0		−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	–	–	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU91797MUF-M	144	36	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	–	–	–	–	–	–	VQFN48FV7070	FSs	YES
BU91797FUV-M	144	36	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	–	–	–	–	–	–	TSSOP-C48V	FSs	YES
BU91600FUV-M	148	37	4	2.7 to 6.0		−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	–	–	6ch 9bit	4x5 Max 20Key	TSSOP-C48V	FSs	YES
BU91799KV-M	200	50	4	2.5 to 6.0	2.5 to 6.0	−40 to +105	1/4	1/3	2wire	✓	–	–	–	–	–	VQFP64	FSs	YES
BU91501KV-M	204	51	4	2.7 to 6.0	4.5 to 6.0	−40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	–	4port	–	–	–	5x6 Max 30Key	VQFP64	FSs	YES
BU91510KV-M	216	54	4	2.7 to 6.0		−40 to +105	1/4, 1/3	1/3, 1/2	3wire	–	6port (6ch PWM)	–	–	6ch 6bit	–	VQFP64	FSs	YES
BU91520KV-M	276	69	4	2.7 to 6.0		−40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	–	6port (6ch PWM)	–	–	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91530KVT-M	445	89	5	2.7 to 6.0		−40 to +105	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	–	–	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU91R63CH-M	176	44	4	2.7 to 6.0	2.7 to 6.0	−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire	✓	–	–	–	–	–	Au Bump Chip	FSs	YES
BU91R64CH-M	320	80	4	2.7 to 6.0	2.7 to 6.0	−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/ 3wire	✓	–	✓	–	–	–	Au Bump Chip	FSs	YES
BU91R65CH-M	640	160	4	2.7 to 6.0	2.7 to 6.0	−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/ 3wire	✓	–	✓	–	–	–	Au Bump Chip	FSs	YES

工业设备用低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	Interface	EVR	GPO	Independent Blink	LED Driver (port)	PWM Gen.	Keyscan	Package
		seg.	com.	I/F Power Supply (V_{DD})	LCD Power Supply (VLCD)											
BU97941FV-LB	104	26	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	–	–	4	–	–	SSOP-B40
BU9795AFV-LB	108	27	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	SSOP-B40
BU97931FV-LB	112	28	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	5port	✓	1	1ch 8bit	–	SSOP-B40

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

图形LCD用 控制器驱动器

(LAPIS Technology产品)

LCD控制器驱动器

Part No.	Max Number of Segment Outputs	Max Driving Display Size	Logic Supply Voltage (V)	Driver Supply Voltage (V)	Operating Temperature (°C)	Feature	Package	Halogen Free Support*1	Automotive Grade*2
ML9058E	132	132×65 dots	3.7 to 5.5	6 to 18	−40 to +85	Integrated RAM/ Boost circuit	Au bump chip	✓	YES
ML9445A	180	180×65 dots	2.7 to 5.5	6 to 18.5	−40 to +105	Integrated RAM/ Boost circuit/PWM	Au bump chip	✓	YES
ML9092-01	56	56×10 dots	4.5 to 5.5	4.5 to 16.5	−40 to +85	Integrated RAM/ Boost circuit	P-TQFP100 -1414-0.50-ZK6	✓	YES
ML9092-02	60	60×10 dots			−40 to +85	Integrated RAM/ Boost circuit	P-TQFP100 -1414-0.50-ZK6	✓	YES
ML9092-03						Integrated RAM	P-TQFP100 -1414-0.50-ZK6		
ML9092-04						Integrated RAM/PWM	P-TQFP100 -1414-0.50-ZK6		

*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。

低Duty LCD用 控制器驱动器

(LAPIS Technology产品)

LCD控制器驱动器(封装品)

Part No.	Max No. of Segment Outputs	Max No. of Driving Segments					Internal Oscillation Frame Frequency (Hz)	Logic Supply Voltage (V)	Driver Supply Voltage (V)	Operating Temperature (°C)	Feature	Package	Halogen Free Support*1	Automotive Grade*2
		static	1/2	1/3	1/4	1/5								
ML9470-12	80	80	160	—	—	—	—	3.0 to 5.5 (single)		−40 to +105	Supports external clock input	P-QFP100-1420-0.65-BK6	✓	YES
ML9471		—	—	240	320	400	—					P-TQFP100-1414-0.50-ZK6	✓	YES
ML9473	60	—	—	180	240	300	—					P-TQFP80-1212-0.50-ZK6	✓	YES
ML9484	50	50	100	150	200	—	—	2.7 to 5.5	4.5 to 5.5		Supports external clock input/ Bias generator built in	P-TQFP64-1010-0.50-ZK6	✓	YES

LCD控制器驱动器(金凸点品)

Part No.	Max No. of Segment Outputs	Max No. of Driving Segments					Internal Oscillation Frame Frequency (Hz)	Logic Supply Voltage (V)	Driver Supply Voltage (V)	Operating Temperature (°C)	Feature	Package	Halogen Free Support*1	Automotive Grade*2
		static	1/2	1/3	1/4	1/5								
ML9480	40	40	80	120	160	—	65/75/85/95/ 130/150/170/190 command switching	2.7 to 5.5	4.5 to 5.5	−40 to +105	Supports external clock input/ Bias generator built in/ EMS countermeasure built in/ No external parts	Au bump chip	✓	YES
ML9478C	80	80	160	240	320	—	65/75/85/95 command switching					Au bump chip	✓	YES
ML9479E	160	160	320	480	640	—						Au bump chip	✓	YES

*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。

传感器/MEMS

霍尔IC	P.81	地磁传感器IC	P.82
电流传感器IC	P.82	照度传感器IC	P.82
颜色传感器IC	P.82	光学式脉搏传感器IC	P.82
气压传感器IC	P.83	温度传感器IC	P.83
震动传感器用放大器	P.83	加速度传感器	P.83

霍尔IC

两极检测霍尔IC 检测出S极和N极时，输出ON(低电平有效)

Part No.	Supply Voltage (V)	Operate Point (mT)		Pulse Drive Period (ms)	Supply Current (Avg.) (μA)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
BD7411G	4.5 to 5.5	+3.4	−3.4	—	2.0 (mA)	CMOS	−40 to +85	SSOP5

两极检测(极性判别输出) 霍尔IC 具有S极和N极检测用2个输出，能够辨别极性

Part No.	Supply Voltage (V)	Operate Point (mT)		Pulse Drive Period (ms)	Supply Current (Avg.) (μA)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
BU52272NUZ	1.65 to 3.60	+2.4	−2.4	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	VSON04Z1114A 1.1×1.4, H=Max 0.4
BU52072GWZ	1.65 to 3.60	+2.4	−2.4	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52073GWZ	1.65 to 3.60	+4.1	−4.1	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52074GWZ	1.65 to 3.60	+6.3	−6.3	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52075GWZ	1.65 to 3.60	+9.5	−9.5	50	5.0	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
New BU52737GWZ	2.5 to 4.5	+15.0	+15.0	50	0.8	CMOS	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52077GWZ	1.65 to 3.60	+15.0	−15.0	50	5.0	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52078GWZ	1.65 to 3.60	+24.0	−24.0	50	5.0	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4

车载用 单极检测霍尔IC

Part No.	Supply Voltage (V)	Operate Point (mT)		Magnetic Signal Input Frequency (Hz)	Supply Current (μA)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
New BD53103G-CZ	2.7 to 38	3.5	—	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD53104G-CZ	2.7 to 38	7.5	—	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD53105G-CZ	2.7 to 38	10.0	—	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD53106G-CZ	2.7 to 38	12.5	—	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD53107G-CZ	2.7 to 38	18.0	—	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD53108G-CZ	2.7 to 38	28.0	—	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12

车载用 交变检测霍尔IC

Part No.	Supply Voltage (V)	Operate/Release Point (mT)		Magnetic Signal Input Frequency (Hz)	Supply Current (μA)	Output	Operating Temperature (°C)	Package (mm)
		Bop	Brp					
New BD54102G-CZ	2.7 to 38	2.0	−2.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD54103G-CZ	2.7 to 38	5.0	−5.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD54104G-CZ	2.7 to 38	7.5	−7.5	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD54105G-CZ	2.7 to 38	10.0	−10.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12
New BD54107G-CZ	2.7 to 38	15.0	−15.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12

地磁传感器IC

三轴数字地磁传感器IC

Part No.	Supply Voltage (V)	Magnetic Measurement (μT)	Magnetic Sensitivity (μT/LSB)	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package (mm)
BM1422AGMV	1.7 to 3.6	±1,200	0.042	150	I²C	−40 to +85	MLGA010V020A 2.0×2.0, H=Max 1.0

电流传感器IC

非接触式电流传感器IC

Part No.	Supply Voltage (V)	Magnetic Measurement (μT)	Magnetic Sensitivity (μT/LSB)	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package (mm)
BM14270AMUV-LB	2.7 to 5.5	±280	0.045	70	I²C	−40 to +125	VQFN20QV3535 3.5×3.5, H=Max 1.0

电流检测放大器IC

Part No.	Ch	Supply Voltage (V)	Quiescent Current (μA)	Common Mode Voltage (V)	Gain (V/V)	Gain Accuracy (%)	Operating Temperature (°C)	Package (mm)
New BD14210G-LA	1	2.7 to 5.5	170	−0.2 to +26	20	±1 (Max)	−40 to +125	SSOP6 2.9×2.8, H=Max 1.25
☆BD14215FVJ-LA	2	2.7 to 5.5	310	−0.2 to +26	20	±1 (Max)	−40 to +125	TSSOP-B8J 3.0×4.9, H=Max 1.10

☆: 开发中

照度传感器IC

电流输出型模拟照度传感器IC

Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (μA/lx)	IR Cut	I/F	Operating Temperature (°C)	Package
BH1603FVC	2.4 to 5.5	±15	0 to 100,000	0.6	–	Linear Current Output (Source)	−40 to +85	WSOF6
BH1620FVC	2.4 to 5.5	±15	0 to 100,000	0.6	–	Linear Current Output (Source)	−40 to +85	WSOF5
BH1680FVC	2.4 to 5.5	±15	0 to 50,000	6	✓	Linear Current Output (Source)	−40 to +85	WSOF5
BH1682FVC	2.3 to 5.5	±3μA	1 to 55,000	–	✓	Logarithmic Current Output (Source)	−40 to +85	WSOF5

16bit串行输出型数字照度传感器IC

Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (at 100ms) (lx/count)	IR Cut	I/F	Operating Temperature (°C)	Package
BH1721FVC	2.4 to 3.6	±15	0 to 65,000	1	–	I²C	−40 to +85	WSOF5
BH1730FVC	2.4 to 3.6	±15	0 to 65,000	0.007	–	I²C	−40 to +85	WSOF6
New BU27034NUC	1.7 to 2.0	±15	0 to 20,000	0.000016	✓	I²C	−40 to +85	WSON008X2120

颜色传感器IC

16bit串行输出型数字颜色传感器IC

Part No.	Supply Voltage (V)	λ_P (nm)				Illuminance Measurement (lx)	High Sensitivity	IR Cut	Fricker detection	I/F	Operating Temperature (°C)	Package (mm)
		Red	Green	Blue	IR							
BH1749NUC	2.3 to 3.6	630	540	460	825	0 to 80,000	✓	✓	–	I²C	−40 to +85	WSON008X2120 2.1×2.0, H=Max 0.6
BU27006MUC-Z	1.7 to 3.6	630	540	460	825	0 to 50,000	✓	✓	✓	I²C	−40 to +85	WQFN12X2520A 2.5×2.0, H=Max 0.55

光学式脉搏传感器IC

光学式脉搏传感器IC

Part No.	Analog Supply Voltage (V)	IO Supply Voltage (V)	Sampling Frequency (Hz)	Red Light, IR Cut	I/F	Operating Temperature (°C)	Package (mm)
BH1790GLC	2.5 to 3.6	1.7 to 3.6	32/64	✓	I²C	−20 to +85	WLGA010V28 2.8×2.8, H=Max 1.0
BH1792GLC	2.5 to 3.6	1.7 to 3.6	32/64/128/256/1,024	✓	I²C	−20 to +85	WLGA010V28 2.8×2.8, H=Max 1.0

气压传感器IC

内置温度补偿功能数字气压传感器IC

Part No.	Supply Voltage (V)	Pressure Range (hPa)	Relative Pressure Accuracy (hPa)	Absolute Pressure Accuracy (hPa)	I/F	Operating Temperature (°C)	Waterproof	Package (mm)
BM1390GLV-Z	1.7 to 3.6	300 to 1,300	±0.06	±1	I²C	−40 to +85	✓	RLGA10VG020T 2.0×2.0, H=Max 1.0

温度传感器IC

模拟输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (°C)		Temperature Sensitivity (mV/°C)	Output Voltage (V) (T_a=+30°C, V_{DD}=3V)	Supply Current (μA)	Operating Temperature (°C)	Package
		T_a=+30°C	T_a=−30, +100°C					
BD1020HFV	2.4 to 5.5	±1.5	±2.5	−8.2	1.3	4.0	−30 to +100	HVSOF5

数字输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (°C) T_a=−20 to +85°C	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package
BH1900NUX	2.7 to 3.6	±3	75	I²C	−30 to +95	VSON008X2030

震动传感器用放大器

震动传感器用放大器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Notch Frequency (kHz)	Notch Attenuation Rate (dB)	Operating Temperature (°C)	Package
BD3852MUZ-Z	1.6 to 2.3	1.6 to 4.5	31.0	−23.0	−40 to +85	VQFN16Z3030A

加速度传感器

(Kionix产品)

3轴加速度传感器

Part No.	G range (±g)	Mechanical Signal Bandwidth (Hz)	Current Consumption* (μA)	I/F	Size, No. of Pins, Package	Features
KXTJ3-1057	2, 4, 8, 16	800	1.5 to 155	I²C	2×2×0.9mm, 12pin, LGA	Wake-Up Function
KX132-1211	2, 4, 8, 16	4200 (XY) 2900 (Z)	0.53 to 148	I²C/SPI	2×2×0.9mm, 12pin, LGA	Wake-Up and Back-To-Sleep Function, 512Byte Buffer, Wide Output Data Rate (0.781Hz to 25.6kHz)
KX134-1211	8, 16, 32, 64	8200 (X) 8500 (Y) 5600 (Z)	0.53 to 148	I²C/SPI	2×2×0.9mm, 12pin, LGA	Wake-Up and Back-To-Sleep Function, 512Byte Buffer, Wide Output Data Rate (0.781Hz to 25.6kHz), Wide Mechanical Signal Bandwidth

*消耗电流可通过设定调整

无线LSI

工业设备用无线通信LSI	P.84	车载通信用LSI	P.85

工业设备用无线通信LSI

特定小功率无线(Sub-GHz频段)

(LAPIS Technology产品)

数据发信专用LSI

Part No.	Support Standard	Frequency Band	Supply Voltage (V)	Modulation Method	FEC Mode	Control I/F	Transmission Rate	Transmission Output (dBm)	Reception Sensitivity	Operating Temperature (°C)	Input Clock	Package	Halogen Free Support*2
ML7386	ARIB STD-T67 RCR STD-30	426MHz band	1.8 to 3.6	2-FSK MSK	–	Synchronous serial (Control) DIO (DATA)	2.4kbps 4.8kbps 7.2kbps	10mW	–	–25 to +85	–	P-WQFN28 -0404-0.40-63	✓
ML7386B								1mW/ 10mW				P-WQFN28 -0404-0.40-63	✓

数据收发信LSI

Part No.	Support Standard	Frequency Band	Supply Voltage (V)	Modulation Method	FEC Mode	Control I/F	Transmission Rate	Transmission Output (dBm)	Reception Sensitivity	Operating Temperature (°C)	Input Clock	Package	Halogen Free Support*2
ML7396D	ARIB STD-T108 EN300-220 IEEE802.15.4g	900 to 960MHz	1.8 to 3.6	2-(G) FSK (G) MSK	IEEE 802.15.4g compliant	Synchronous serial (Control) DIO (DATA)	to 50kbps 100kbps 150kbps 200kbps 400kbps	1mW/ 10mW/ 20mW	–107dBm [100kbps BER=0.1%]*1	–40 to +85	–	P-WQFN40 -0606-0.50-63	✓
ML7396E	EN300-220 EN1357-4:2011	750 to 900MHz										P-WQFN40 -0606-0.50-63	✓
ML7344Jy	ARIB STD-T67 RCR STD-30	160 to 510MHz	1.8 to 3.6	2-(G) FSK (G) MSK	–		to 15kbps	1mW/ 10mW/ 20mW	–117dBm [4.8kbps BER=0.1%]*1		y= (C) rystal input y= (S) PXO input y= (T) CXO input	P-WQFN32 -0505-0.50-A63	✓
ML7344Cy	Q/GDW374.3		3.3 to 3.6 (100mW)		–			20mW/ 100mW				P-WQFN32 -0505-0.50-A63	✓
ML7406y	EN300-220 EN1357-4: 2011 IEEE802.15.4g	750 to 960MHz	1.8 to 3.6	2-(G) FSK (G) MSK	–		to 500kbps	1mW/ 10mW/ 20mW	–106dBm [100kbps BER=0.1%]*1			P-WQFN32 -0505-0.50-A63	✓
ML7345	ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4g	160 to 960MHz		2-(G) FSK (G) MSK 4-(G) FSK	–		to 100kbps		–123dBm [2.4kbps BER=1%]*1		–	P-WQFN32 -0505-0.50-A63	✓
ML7345D		315 to 960MHz			–				–119.5dBm [2.4kbps BER=1%]*1		–	P-WQFN32 -0505-0.50-A63	✓
ML7345C	Q/GDW374.3	470 to 510MHz	3.3 to 3.6 (100mW)		–			20mW/ 100mW	–123dBm [2.4kbps BER=1%]*1		–	P-WQFN32 -0505-0.50-A63	✓

*1 BER是Bit Error Rate的缩写。
*2 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。

LPWA无线(Sub-GHz频段)

(LAPIS Technology产品)

数据收发信LSI

Part No.	Supported Standard	Frequency Band	Supply Voltage (V)	Modulation Method	FEC Mode	Control Interface	CPU core	Memory resources	Transmission Rate	Transmission Output (dBm)	Reception Sensitivity	Operating Temperature (°C)	Package	Halogen Free Support*2
ML7404	ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4: 2013 Sigfox IEEE802.15.4k IEEE802.15.4g	315 to 960MHz	1.8 to 3.6	2-(G) FSK (G) MSK 4-(G) FSK (G) MSK BPSK (DSSS)	IEEE 802.15.4k compliant	Synchronous serial (Control) DIO (DATA)	–	–	to 100kbps (xFSK) 80k to 200kcps (DSSS)	1mW/ 10mW/ 20mW	–119.5dBm [2.4kbps BER=1%]*1	–40 to +85	P-WQFN32 -0505-0.50-A63	✓
ML7446N	ARIB STD-T67 ARIB STD-T108 Sigfox RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4g		2.6 to 3.6	2-(G) FSK (G) MSK 4-(G) FSK (G) MSK BPSK (TX only)	IEEE 802.15.4g compliant		Cortex®-M3 (to 81MHz)	FLASH1024KB, RAM256KB	to 100kbps		–106dBm [100kbps BER=1%]*1		P-TFBGA81 -6.5x6.5-0.65-9-MC	✓
New ML7456N							nX-U16 (to 24MHz)	FLASH64KB, RAM8KB					P-WQFN48 -0606-0.40-T63-MC	✓

*1 BER是Bit Error Rate的缩写。
*2 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。

搭载MCU的特定小功率无线(Sub-GHz频段&2.4GHz频段)

(LAPIS Technology产品)

数据收发信LSI

Part No.	Support Standard	Frequency Band	Supply Voltage (V)	Modulation Method	CPU core	Memory resources	Transmission Rate	Transmission Output (dBm)	Reception Sensitivity	Operating Temperature (°C)	Package	Halogen Free Support*2
ML7436N	ARIB STD-T66 ARIB STD-T67 ARIB STD-T108 EN300-220 FCC part15 IEEE802.15.4g	400 to 960MHz 2.4GHz	2.6 to 3.6	2-(G) FSK (G) MSK 4-(G) FSK	Cortex®-M3 (to 81MHz)	FLASH1024KB, RAM256KB	1.2k to 300kbps	1mW/ 10mW/ 20mW	−107dBm [100kbps BER=1%]*1	−40 to +85	P-TQFP48 -0707-0.50-Z9K6-MC	✓

Cortex®是ARM Limited(或其子公司)在EU或在其他国家的注册商标。
*1 BER是Bit Error Rate的缩写。
*2 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

车载通信用LSI

FM数字广播接收用LSI

(LAPIS Technology产品)

FM数字广播接收调谐器

Part No.	Feature	Supply Voltage (V)	Supply Current (Max) (mA)	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
ML7174 [J]	FM VIC® tuner, FM multiplexing demodulate LSI for VIC®, Built-in BPF, frame memory, and VIC® descrambler, Frames A,B,C, SPI slave	3.0 to 3.6	85	−40 to +85	P-WQFN64 -0909-0.50-63	✓	YES
ML7183 [J]	FM VIC® tuner & Filter LSI, BPF, I²C slave		75			✓	YES

支持VICS® FM多重解调

Part No.	Feature	Supply Voltage (V)	Supply Current (Max) (mA)	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
ML7154 [J]	VIC® compliant FM multiplexing demodulate LSI for VIC®, Built-in BPF, frame memory, and VIC® descrambler, Frames A,B,C, SPI slave	3.0 to 3.6	28	−40 to +85	P-WQFN64 -0909-0.50-63	✓	YES

[J] : 此LSI仅在日本市场销售。
VICS®是美国Vehicle Information and Communication System Center的注册商标。
*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。

音频/视频

音频放大器	P.86	音频电源	P.88
音频处理器	P.88	音频转换器	P.91
视频放大器	P.92	图像校正	P.93
图像LSI	P.93		

音频放大器

车载功放

1.2W 单声道AB类功放

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (W)	Input Inpedance Z_{IN} (kΩ)	Built-in Amplifier Resistance Ri (kΩ)	Built-in Amplifier Resistance Rf (kΩ)	Distortion (%)	Output Noise Voltage (μVrms)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD78306EFJ-M	4.0 to 5.5	2.5	0.1	6.0 (P_O=0.5W)	1.2 (THD+N=1%)	45	90	90	0.05 (P_O=1W)	15	HTSOP-J8	FSs	YES
☆BD78308EFJ-M				8.0 (P_O=0.5W)		40	80	80	0.05 (P_O=1W)	16	HTSOP-J8	FSs	YES
BD78310EFJ-M				10.0 (P_O=0.5W)		35	70	110	0.06 (P_O=1W)	17	HTSOP-J8	FSs	YES
☆BD78312EFJ-M				12.0 (P_O=0.5W)		30	60	120	0.06 (P_O=1W)	19	HTSOP-J8	FSs	YES
☆BD78314EFJ-M				14.0 (P_O=0.5W)		25	50	130	0.07 (P_O=1W)	22	HTSOP-J8	FSs	YES
☆BD78316EFJ-M				16.0 (P_O=0.5W)		20	40	140	0.09 (P_O=1W)	24	HTSOP-J8	FSs	YES
☆BD78318EFJ-M				18.0 (P_O=0.5W)		18	36	144	0.10 (P_O=1W)	26	HTSOP-J8	FSs	YES
☆BD78320EFJ-M				20.0 (P_O=0.5W)		15	30	150	0.12 (P_O=1W)	31	HTSOP-J8	FSs	YES
☆BD78322EFJ-M				22.0 (P_O=0.5W)		12	24	156	0.15 (P_O=1W)	35	HTSOP-J8	FSs	YES
☆BD78324EFJ-M				24.0 (P_O=0.5W)		10	20	160	0.17 (P_O=1W)	43	HTSOP-J8	FSs	YES
BD78326EFJ-M				26.0 (P_O=0.5W)		8	16	164	0.20 (P_O=1W)	50	HTSOP-J8	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

☆: 开发中

扬声器放大器

便携式放大器 1.9W＋1.9W立体声扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (W)	Distortion (%)	Output Noise Voltage (μVrms)	Package
BD7836EFV	4.5 to 5.5	1.0	5	0.1	6/10/15.6/21.6	1.9 (V_{DD}=5V, 4Ω, THD+N=1%)	0.1	16	HTSSOP-B20

便携式放大器 1.1W～1.5W单声道扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (R_L=8Ω, THD=10%) V_{CC}=3.6V	Output Power (R_L=8Ω, THD=10%) V_{CC}=5.0V	Distortion (%)	Output Noise Voltage (dBV)	Package
BD7830NUV	2.4 to 5.5	0.53	3.2	0	0 to 20	0.77W	1.5W	0.1	–100	VSON008V2030

便携式放大器 模拟输入单声道D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	ALC Circuit	Package (mm)
BD5460GUL	2.5 to 5.5	0.69	2.0 (V_{DD}=3.6V)	6	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)	0.3 (V_{DD}=3.6V)	30	–	VCSP50L1 1.6x1.6, H=0.55Max
BD5461GUL		0.69	2.0 (V_{DD}=3.6V)	12	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VCSP50L1 1.6x1.6, H=0.55Max
BD27400GUL		0.69	2.9 (V_{DD}=3.6V)	External Variable	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VCSP50L1 1.5x1.5, H=0.55Max
BD5632NUX		0.52	2.7 (V_{DD}=3.6V)	6	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VSON008X2030
BD5634NUX		0.52	2.7 (V_{DD}=3.6V)	12	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VSON008X2030
BD5638NUX		0.52	2.7 (V_{DD}=3.6V)	18	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VSON008X2030
BD5465GUL		0.69	3.3 (V_{DD}=3.6V)	12	0.6 (V_{DD}=3.4 to 5.5V, R_L=8Ω THD+N≤1%)			40	✓	VCSP50L1 1.8x1.8, H=0.55Max
BD5466GUL		0.69	3.0 (V_{DD}=3.6V)	18	1.5 (V_{DD}=5V, R_L=4Ω THD+N≤1%)	0.5 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7x1.7, H=0.55Max
BD5467GUL		0.69	3.0 (V_{DD}=3.6V)	13	1.5 (V_{DD}=5V, R_L=4Ω THD+N≤1%)	0.5 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7x1.7, H=0.55Max
BD5468GUL		0.69	3.0 (V_{DD}=3.6V)	13	1.5 (V_{DD}=5V, R_L=4Ω THD+N≤1%)	0.5 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7x1.7, H=0.55Max
BD5469GUL		0.69	3.0 (V_{DD}=3.6V)	13	0.88 (V_{DD}=4.2V, R_L=8Ω THD+N≤1%)	0.64 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7x1.7, H=0.55Max

便携式放大器 模拟输入立体声D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	Max LDO Current (mA)	Package
BD28412MUV	4.5 to 13.0	3.20	16 (V_{CC}=11V)	20/26/32/36	18 (V_{CC}=12V, R_L=4Ω THD+N=10%, PBTL)	9 (V_{CC}=12V, R_L=8Ω THD+N=10%)	0.03 (V_{CC}=11V)	100	–	VQFN032V5050

中/高输出放大器 搭载DSP的支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	DSP					Package
								Volume	DC Cut HPF	Hard Clipper	Parametric EQ	DRC	
BM28723AMUV	10 to 24	4.56 (4-Layer Board)	45 (V_{CC}=18V)	10 (Vcc=13V R_L=8Ω)	17 (Vcc=18V R_L=8Ω)	0.08	150	✓	✓	✓	✓ (12 Band)	✓ (3 Band)	VQFN032V5050

中/高输出放大器 支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	Power Limiter Function	Package
BD28623MUV	8.5 to 24.0	3.56 (4-Layer Board) 2.21 (2-Layer Board)	40 (V_{CC}=18V)	–	15 (V_{CC}=16V, R_L=8Ω)	0.08	150	✓ (GAIN)	VQFN024V4040

中/高功率放大器 支持模拟输入/BTL输出的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	Power Limiter Function	Package
BD5424EFS	10.0 to 18.0	4.5 (4-Layer Board) 2.0 (2-Layer Board)	30 (V_{CC}=12V)	28	10 (V_{CC}=12V, R_L=8Ω)	20 (V_{CC}=17V, R_L=8Ω)	0.1	80	✓ (Power Limitter)	HTSSOP-A44
BD5423AEFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 (V_{CC}=12V)	28	10 (V_{CC}=12V, R_L=8Ω)	17 (V_{CC}=12V, R_L=4Ω)	0.1	80	✓ (Power Limitter)	HTSSOP-A44
BD5426EFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 (V_{CC}=12V)	28	9 (V_{CC}=12V, R_L=8Ω)	10 (V_{CC}=13V, R_L=8Ω)	0.1	80	✓ (Power Limitter)	HTSSOP-A44
BD5413EFV	6.0 to 10.5	2.8 (4-Layer Board) 1.1 (2-Layer Board)	12 (V_{CC}=9V)	30	4 (V_{CC}=9V, R_L=8Ω)	5 (V_{CC}=9V, R_L=6Ω)	0.2	90	–	HTSSOP-B24

耳机放大器

无需耦合电容器的耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Gain (V/V)	Maximum Output Power (mW)	Distortion (%)	Output Noise Voltage (μVrms)	Ripple Rejection (dB)	Note	Package (mm)
BD88200GUL	2.4 to 5.5	2	Variable Gain with external resistor	80 (V_{DD}=3.3V, R_L=16Ω)	0.006 (V_{DD}=3.3V, R_L=16Ω)	10	−80 (f=217Hz)	Virtual ground based	VCSP50L2 2.1×2.1
BD88210GUL			−1.0					Virtual ground based	VCSP50L2 2.1×2.1
BD88215GUL			−1.5					Virtual ground based	VCSP50L2 2.1×2.1
BD88220GUL			−2.0					Virtual ground based	VCSP50L2 2.1×2.1
BD88400GUL			Variable Gain with external resistor					Ground based	VCSP50L2 2.1×2.1
BD88400FJ			Variable Gain with external resistor					Ground based	SOP-J14
BD88410GUL			−1,0					Ground based	VCSP50L2 2.1×2.1
BD88415GUL			−1.5					Ground based	VCSP50L2 2.1×2.1
BD88420GUL			−2.0					Ground based	VCSP50L2 2.1×2.1

0.93V低电压工作(1节电池)耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Maximum Output Power (mW)		Distortion (%)		Output Noise Voltage (μVrms)	Package
			Single-ended (16Ω)	BTL (8Ω)	Single-ended (16Ω)	BTL (8Ω)		
BU7150NUV	0.93 to 3.50 (T_a=0°C or more)	1	14 (V_{DD}=1.5V)	85 (V_{DD}=1.5V)	0.1 (P_O=5mW)	0.2 (P_O=25mW)	10	VSON010V3030

标准耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Voltage Gain (dB)	Maximum Output Power (mW) R_L=16Ω	Distortion (%)	Ripple Rejection (dB)	Package
BH3544F	2.8 to 6.5	7.0	6	62	0.02	57	SOP8
BH3547F	4.5 to 6.5	3.7	6	77	0.05	57	SOP8
BH3548F	4.0 to 5.5	6.5	6	62 (120@R_L=8Ω)	0.02	57	SOP8

其他

线路放大器(Output Coupling Capacitor-less Line Amplifier)

Part No.	Supply Voltage (V)	Circuit Current (mA)	ch	Voltage Gain (dB)	Maximum Output Voltage (Vrms)	Distortion (%)	Output Noise Voltage (μVrms)	Channel Separation (dB)	Ripple Rejection (dB)	Charge Pump	Package
BD8876FV	3.0 to 5.5	3.2	2	6 or 9	3.5	0.003	8	80	65	✓	SSOP-B14
BD8878FV	3.0 to 5.5	3.2	2	6.7	3.0	0.003	10	65	65	✓	SSOP-B14

隔离放大器

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Circuit	Circuit Current (mA)	Voltage Gain (dB)	CMRR (dB)	Common-mode Input Voltage Range (V) V_{CC}=8V	THD (%)	Output Noise Voltage (μVrms)	Channel Separation (dB)	Slew Rate (V/μs)	Input Resistance (kΩ)	Package
BA3121F	4.0 to 18.0	−30 to +85	2	9.0	−0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8
BA3123F	4.0 to 18.0	−40 to +85	2	9.0	−0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8

音频电源

高音质音频电源

*以下产品属于电源管理产品。(请参见P.42)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

高音质音频电源

Part No.	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Reference Voltage Accuracy (%)	Dropout Voltage (mV)	Noise Level (μVrms)	PSRR (dB)	Over Current Protection	Thermal Protection	Package
MUS-IC BD37201NUX	0.5	2.7 to 5.5	Variable 1.0 to 4.5	±1	200	3.3	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VSON008X2030

◎MUS-IC 标记表示MUS-IC™ 系列。MUS-IC™ 是ROHM Co., Ltd.的商标或注册商标。
作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

音频处理器

模拟音频处理器

内置μ-step音量 6ch/8ch声音处理器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Output Noise Voltage (μVrms)	Distortion (%)	Selector	Main Volume (dB)	ch	Zone Volume (dB)	ch	Tone Control	Serial Control	Package
MUS-IC BD34704KS2	±6.5 to ±7.5	±32	1.2	0.0004	18	+32 to −95 0.5/Step	8	+7.5 to −91.5 0.5/Step	2	—	2Wire	SQFP-T80C
MUS-IC BD34705KS2	±6.5 to ±7.5	±32	1.2	0.0004	12	+32 to −95 0.5/Step	8	+6 to −16 1/Step, −16 to −56 2/Step	2	—	2Wire	SQFP-T64
BD34701KS2	±6.5 to ±7.5	±22	1.5	0.0004	8	+32 to −95 0.5/Step	8	—	—	—	2Wire	SQFP-T52
BD3474KS2	±6.5 to ±7.5	±30	1.5	0.0004	12	+32 to −95 0.5/Step	6	—	—	Bass, Treble	2Wire	SQFP-T80C

2ch/4ch/6ch声音处理器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Output Noise Voltage (μVrms)	Distortion (%)	Selector	Main Volume (dB)	ch	Zone Volume (dB)	ch	Tone Control	Serial Control	Package
BD3814FV	±5.0 to ±7.3	±7	1.0	0.001	—	0 to −95 1/Step	6	—	—	Bass, Treble	2Wire	SSOP-B40
BD34700FV	±6.5 to ±7.5	±22	1.5	0.0004	—	+32 to −95 0.5/Step	4	—	—	—	2Wire	SSOP-B40
BD3812F	±5.0 to ±7.3	±2	1.2	0.0050	—	0,6 to 18 2/Step, 0 to −103 1/Step	2	—	—	—	2Wire	SOP14

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作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

6ch/9ch立体声输入选择器IC 最大输入电压4.2V

Part No.	Supply Voltage (V)	Current Consumption (mA)	Output Noise Voltage (μVrms)	Distortion (%)	Selector	Serial Control	Package
BD3843FS	±4.0 to ±7.3	±3	1.0	0.004	6	2Wire	SSOP-A24
BD3841FS	±5.0 to ±7.3	±3	1.0	0.004	9	2Wire	SSOP-A32

内置双频段均衡器的声音处理器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudness	LPF for Sub Woofer	Option	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package
			Single	Diff.			(dB)	Output								
BD37503FV	7.0 to 9.5	20	3	1	0 to +20	0 to –36, –∞	0 to –63, –∞	4	–	✓*	–	Anti-aliasing Filter*	I²C BUS	5.8	0.001	SSOP-B20
BD37511FS	7.0 to 9.5	15	3	–	0 to +20	0 to –40	0 to –62, –∞	4	–	–	–	–	I²C BUS	6.0	0.005	SSOP-A20
BD37512FS	7.0 to 9.5	15	3	1	0 to +20	0 to –40	0 to –62, –∞	4	–	–	–	–	I²C BUS	6.0	0.005	SSOP-A20
BD37513FS	7.0 to 9.5	38	3	1	0 to +20	+15 to –79, –∞	0 to –79, –∞	4	–	✓	–	–	I²C BUS	3.8	0.001	SSOP-A20
BD37514FS	7.0 to 9.5	38	3	1	0 to +20	+15 to –79, –∞	0 to –79, –∞	5	✓	✓	–	–	I²C BUS	3.8	0.001	SSOP-A20
BD37515FS	7.0 to 9.5	38	3	1	0 to +20	+15 to –79, –∞	+15 to –79, –∞	5	✓	✓	✓	–	I²C BUS	3.8	0.001	SSOP-A20
BD37521FS	7.0 to 9.5	38	3	1	0 to +20	+15 to –79, –∞	0 to –79, –∞	4	–	EXT	–	–	I²C BUS	3.8	0.001	SSOP-A24
BD37522FS	7.0 to 9.5	38	4	1	0 to +20	+15 to –79, –∞	0 to –79, –∞	4	✓	✓	–	–	I²C BUS	3.8	0.001	SSOP-A24
BD37523FS	7.0 to 9.5	38	4	1	0 to +20	+15 to –79, –∞	+15 to –79, –∞	5	✓	✓	✓	–	I²C BUS	3.8	0.001	SSOP-A24
BD3870FS	4.5 to 9.5	8	3	–	0/6/12/18	0 to –87, –∞	–	2	EXT	–	–	Surround	2Wire	4.5	0.01	SSOP-A24
BD3871FS	4.5 to 9.5	8	3	–	24/26/28	0 to –87, –∞	–	2	EXT	–	–	Surround	2Wire	40 (Gv=24dB)	0.01	SSOP-A24
BD3490FV	4.75 to 9.50	7	4	–	0/2/4/6/8/ 12/16/20	0 to –87 (2ch Independent control), –∞	–	2	EXT	–	–	Bass Boost, Surround	I²C BUS	5.0	0.002	SSOP-B28
BD3491FS	4.75 to 9.50	7	6	–	0/2/4/6/8/ 12/16/20	0 to –87 (2ch Independent control), –∞	–	2	EXT	–	–	Bass Boost, Surround	I²C BUS	5.0	0.002	SSOP-A32

内置双频段均衡器的声音处理器 :搭载低音、高音　*可排他性使用响度　EXT：由外置元件设定
BD37511FS、BD37512FS的引脚兼容。BD37513FS、BD37514FS、BD37515FS的引脚兼容。
BD37522FS和BD37523FS的引脚兼容。

模拟音频处理器

内置3频段均衡器的声音处理器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudness	LPF/HPF for Sub Woofer	Mixing		Level Meter	Option	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1
			Single	Diff.			(dB)	Outputs					ATT							
BD37524FS	7.0 to 9.5	38	4	1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	–	–	✓	–	I²C BUS	3.8	0.001	SSOP-A24	–
BD37531FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	–	–	–	–	–	I²C BUS	3.8	0.001	SSOP-B28	–
BD37532FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	–	–	–	–	I²C BUS	3.8	0.001	SSOP-B28	–
BD37533FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	✓	✓	–	–	I²C BUS	3.8	0.001	SSOP-B28	–
BD37534FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	✓	✓	✓	–	I²C BUS	3.8	0.001	SSOP-B28	–
BD37541FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	0 to −79, −∞	6	✓	EXT	–	✓	–	–	–	I²C BUS	3.8	0.001	SSOP-B28	–
BD37542FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	EXT	LPF	✓	✓	–	–	I²C BUS	3.8	0.001	SSOP-A32	–
BD37543FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	EXT	LPF+ HPF	✓	✓	✓	–	I²C BUS	3.8	0.001	SSOP-A32	–
BD37544FS	7.0 to 9.5	38	1/3/4	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	–	LPF+ HPF	✓	✓	–	Super Bass	I²C BUS	3.8	0.001	SSOP-A32	–
BD37033FV-M	7.0 to 9.5	31	3/5	2/1	0 to +16	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	✓	✓	✓	–	I²C BUS	5.5	0.002	SSOP-B28	FSs
BD37034FV-M	7.0 to 9.5 V_{CC}L to 13	36	3/5	2/1	0 to +16	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF+ HPF	✓	✓	✓	High Voltage Output	I²C BUS	6.0	0.002	SSOP-B28	FSs
BD3883FS	6.5 to 9.5	8	5	–	0/6/12/16/ 20/23/26/29	0 to −87, −∞	0/−10	2	EXT	–	–	–	–	–	Surround	2Wire	4.0	0.01	SSOP-A32	–
BD3403FV	6.5 to 9.5	16	5	–	0 to +26 (2/Step)	0 to −30 (2/Step)	0 to −59, −∞	2	EXT	–	–	–	–	–	Surround	2Wire	8.0	0.02	SSOP-B40	–

内置高级开关的通用电子音量控制器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Fader Volume (dB)	Outputs	Mixing		Post Filter	High-Voltage Output (dB)	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1
			Single	Diff.				ch	ATT (dB)							
BD3464FV	7.0 to 9.5	25	–	–	–	+23 to −79, −∞ (1/Step)	4	–	–	–	–	I²C BUS	1.9	0.0004	SSOP-B20	–
BD3465FV	7.0 to 9.5	25	–	–	–	+23 to −79, −∞ (1/Step)	4	3	+0 to −64, −∞ (8/Step)	–	–	I²C BUS	1.9	0.0004	SSOP-B20	–
BD3460FS	7.0 to 9.5	25	–	–	–	+23 to −79, −∞ (1/Step)	6	–	–	–	–	I²C BUS	1.9	0.0004	SSOP-A24	–
BD3461FS	7.0 to 9.5	25	–	–	–	+23 to −79, −∞ (1/Step)	6	3	+0 to −64, −∞ (8/Step)	–	–	I²C BUS	1.9	0.0004	SSOP-A24	–
BD34602FS-M	7.0 to 9.5	35	–	–	–	+23 to −79, −∞ (1/Step)	6	3	+0 to −79, −∞ (1/Step)	–	–	I²C BUS	1.3	0.0004	SSOP-A24	FSs
BD37067FV-M	7.0 to 9.5	37	2/3/4/5	4/3/2/1	+23 to −15 (1/Step)	+23 to −79, −∞ (1/Step)	6	1	–	✓	–	I²C BUS	8	0.003	SSOP-B40	FSs
BD37068FV-M	7.0 to 9.5 V_{CC}L to 17.8	30/7	1/2/3/4/5	5/4/3/2/1	+23 to −15 (1/Step)	+23 to −79, −∞ (1/Step)	6	1	–	✓	0/8.3	I²C BUS	23 (High-Voltage Mode)	0.003	SSOP-B40	FSs
BD37069FV-M	7.0 to 9.5 V_{CC}L to 17.8	30/7	2/3/4/5	4/3/2/1	+23 to −15 (1/Step)	+23 to −79, −∞ (1/Step)	6	1	–	✓	2/4.6/8.3	I²C BUS	23 (High-Voltage Mode)	0.003	SSOP-B40	FSs

内置3频段均衡器的语音处理器 :EXT：由外部元件设定
BD37531FV、BD37532FV、BD37533FV和BD37534FV引脚兼容。
BD37541FS, BD37542FS、BD37543FS引脚兼容。BD37033FV-M、BD37034FV-M引脚兼容。
内置高级开关的通用电子音量控制器：BD3464FS和BD3465FS引脚兼容。BD3460FS、BD3461FS、BD34602FS-M引脚兼容。
BD37067FV-M和BD37068FV-M引脚兼容。

◎MUS-IC 标记表示MUS-IC™ 系列。MUS-IC™ 是ROHM Co., Ltd.的商标或注册商标。
作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。
◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

媒体解码器

AAC/WMA/MP3/WAV格式＋SD存储卡＋CD-ROM

Part No.	Supply Voltage (V)	USB	SD	iPod	Serial I/F	Display Information	MP3	WMA	AAC	CD-ROM Mode	CD-ROM File System	MP3 Recording Format	File Search	Audio Output		Package
														Analog	Digital	
BU94605AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	–	I²C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	–	Search during the playback	Line	I²S SPDIF	VQFP80

AAC/WMA/MP3/WAV格式＋SD存储卡＋CD-ROM＋MP3录音

Part No.	Supply Voltage (V)	USB	SD	iPod	Serial I/F	Display Information	MP3	WMA	AAC	CD-ROM Mode	CD-ROM File System	MP3 Recording Format	File Search	Audio Output		Package
														Analog	Digital	
BU94702AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	–	I²C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	MPEG1 Layer3 Sample Rate: 32, 44.1, 48kHz Bit Rate: 32, 64, 128, 192, 256, 320kHz	Search during the playback	Line	I²S SPDIF	VQFP80

音频转换器

音频编解码器

音频编解码器

Part No.	Supply Voltage (V)	ADC	DAC	Microphone Input	Speaker Output		Headphone Output	Filter		ALC	Package
		ch/bit	ch/bit		Type	Monaural/ Stereo		EQ	Notch		
BU26154MUV	HV_{DD} 2.7 to 5.5 LV_{DD} 2.7 to 3.6	1ch/24bit	2ch/24bit	1	AB/D	Monaural	Stereo	✓	✓	✓	VQFN040V6060
BU26156RFS	HV_{DD} 2.7 to 5.5 LV_{DD} 2.7 to 3.6	2ch/24bit	2ch/24bit	2	AB/D	Stereo	Stereo	✓	✓	✓	HTSSOP-A44R

音频DAC

PCM 768kHz/32bit, DSD 22.4MHz 立体声 音频D/A转换器

Part No.	Supply Voltage			Output Channels	Peak Output Current (mApp)	Resolution (Bit)	SNR (dB)	THD+N (dB)	Dynamic Range (dB)	Sampling Frequency (kHz)	DSD Clock (MHz)	Package
	AVCC (V)	DVDD (V)	DVDDIO (V)									
MUS-IC BD34301EKV	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	9.8	32	130	–115	130	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV
BD34352EKV	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	6.25	32	126	–112	126	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV

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作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

视频放大器

复合视频放大器

超小型 WL-CSP 无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capa-less	Max Output Level (V_{P-P})	Video Out→In Change Mode	Package (mm)
BH76906GU	2.5 to 3.45	15	6	−0.2 (4.5MHz)	−26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	–	VCSP85H 1.6×1.6, H=1.0 Max
BH76912GU		15	12	−0.2 (4.5MHz)	−26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	–	VCSP85H 1.6×1.6, H=1.0 Max
BH76916GU		15	16.5	−0.2 (4.5MHz)	−26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	–	VCSP85H 1.6×1.6, H=1.0 Max

无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capa-less	Max Output Level (V_{P-P})	Package
BH76806FVM	2.5 to 3.45	16	6	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76809FVM		16	9	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76812FVM		15	12	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76816FVM		15	16.5	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8

小型/低消耗电流 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capa-less	Max Output Level (V_{P-P})	Video Out→In Change Mode	Package
BH76106HFV	2.6 to 5.5	7	6	0.1 (4.5MHz)	−45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	–	HVSOF6
BH76109HFV		7	9	0.1 (4.5MHz)	−45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	–	HVSOF6
BH76112HFV		7	12	0.1 (4.5MHz)	−45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	–	HVSOF6
BH76206HFV		8	6	−0.3 (6MHz)	−40 (27MHz)	Clamp	8th order 6MHz	0	✓	2.6	–	HVSOF6

内置视频开关 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Output Capa-less	Max Output Level (V_{P-P})		Package
										V_{CC}=3V	V_{CC}=5V	
BH76330FVM	2.8 to 5.5	10	6	0 (10MHz)	3 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	MSOP8
BH76331FVM		10	6	0 (10MHz)	3 input-1 output	Bias	✓	✓ (Standby)	–	2.8	4.6	MSOP8
BH76360FV		12	6	0 (10MHz)	6 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	SSOP-B16
BH76361FV		12	6	0 (10MHz)	6 input-1 output	Bias	✓	✓ (Standby)	–	2.8	4.6	SSOP-B16

视频开关

宽带 1ch视频开关

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Crosstalk (dB)	Max Output Level (V_{P-P})		Package
										V_{CC}=3V	V_{CC}=5V	
BH76332FVM	2.8 to 5.5	9	0	0 (30MHz)	3 input-1 output	Clamp	–	✓ (Standby)	−65 (4.43MHz)	1.8	3.8	MSOP8
BH76333FVM		8	0	0 (30MHz)	3 input-1 output	Bias	–	✓ (Standby)	−65 (4.43MHz)	1.9	3.4	MSOP8
BH76362FV		11	0	0 (30MHz)	6 input-1 output	Clamp	–	✓ (Standby)	−65 (4.43MHz)	1.8	3.8	SSOP-B16
BH76363FV		11	0	0 (30MHz)	6 input-1 output	Bias	–	✓ (Standby)	−65 (4.43MHz)	1.9	3.4	SSOP-B16

视频、音频开关

Part No.	Supply Voltage (V)	Video Circuit Current (mA)	Audio Circuit Current (mA)	Video Freq. Chara.1 (dB)	Video Freq. Chara.2 (dB)	Video Amplifier Gain (dB)	Audio Freq. Chara.1 (dB)	Audio Freq. Chara.2 (dB)	Audio Amplifier Gain (dB)	Residual Noise (μVrms)	Package
BH7649KS2	7.5 to 9.5	34	23	0 (6.75MHz)	−30 (27MHz)	−3/−6/0/+3/+6	−0.5 (24kHz)	−26 (96kHz)	−6/0	20	SQFP-T52

其他

隔离放大器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	ch	Input type	Video Driver	Input Impedance (kΩ)	CMRR (dB)	Max Output Level (V_{P-P})	Package
BH7673G	4.5 to 5.5	4.8	0	0 (10MHz)	1	Bias	–	150	60	3.8	SSOP5

图像校正

面板用图像校正IC

Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Image Adjustment	PWM Output	LVDS Transmitter	Package	Automotive Grade AEC-Q100
	V_{DD} Core	V_{DD} I/O	V_{DD} LVDS								
BU1523KV	1.65 to 1.95	3.0 to 3.6	3.0 to 3.6	Supports up to WVGA+ (864×480)	I²C BUS	24bit RGB Interface 8bit YUV=4 : 2 : 2 ITU-R BT.656	✓	–	✓	VQFP100	Preparing

内置图像校正的视频编码器

Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Fog Reduction	Video Encoder	Package	Automotive Grade AEC-Q100
	V_{DD} Core	V_{DD} I/O	AV_{DD}							
BU6521KV	1.4 to 1.6	2.7 to 3.6	2.7 to 3.6	ITU-R BT.656	I²C BUS Serial EEPROM Interface	8bit YUV=4 : 2 : 2 ITU-R BT.656	✓	✓	VQFP48C	YES

图像LSI

视频解码器

(LAPIS Technology产品)

CVBS/S-video

Part No.	Supply Voltage (V)	Input (Analog)		Output (Digital)	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
		Terminal	Type						
ML86101A	3.3/1.5	CVBS×4 or CVBS×2+S-video×1 or S-video×2	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	Simple, small	–40 to +85	P-TQFP48 -0707-0.50-ZK6	✓	YES
New ML86112	3.3/1.2	CVBS×4 or differential×2	NTSC PAL	MIPI CSI-2 (YUV422-8bit) ITU-R BT.656	Simple, small MIPI output I/P conversion	–40 to +105	P-WQFN32 -0505-0.50-W66	✓	YES
ML86V7668A	3.3/2.5	CVBS×4 or CVBS×1+S-video×3	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16bit RGB 18bit	RGB output	–40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES
☆ML86160	3.3/1.2	CVBS×4 or differential×2	NTSC PAL High Definition Analog	ITU-R BT.656 MIPI CSI-2	High Definition Analog Decoder HD-ACT*3	–40 to +105 (T.B.D)	P-WQFN36 -0606-0.50 (T.B.D)	✓	YES

CVBS/S-video/Component/RGB

Part No.	Supply Voltage (V)	Input (Analog)		Output (Digital)	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
		Terminal	Type						
ML86V7675	3.3/1.5	CVBS×4 +(Comp or S-video)×1 +Comp×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	WVGA, EGA analog RGB supported	–40 to +85	P-TQFP64 -1010-0.50-ZK6	✓	YES

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。
*3 HD-ACT(High Definition-Analog Composite Transport)利用独特的高分辨率技术清晰显示模拟影像。

☆：开发中

视频编码器

(LAPIS Technology产品)

CVBS

Part No.	Supply Voltage (V)	Input (Digital)	Output (Analog)		Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
			Terminal	Type					
ML86V76580	3.3/1.8	ITU-R BT.656 YUV 8bit	CVBS	NTSC PAL	75Ω drive	–40 to +85	P-TQFP48 -0707-0.50-ZK6	✓	YES
ML86640	3.3	ITU-R BT.656 YUV 8/16/24bit RGB 24bit	CVBS	NTSC PAL	75Ω drive P/I conversion	–40 to +105	P-TQFP48 -0707-0.50-ZK6	✓	YES
☆ML86660	3.3	ITU-R BT.656 MIPI CSI-2	CVBS	NTSC PAL High Definition Analog	High Definition Analog Encoder HD-ACT*3	–40 to +105 (T.B.D)	WQFN36 -0505-0.50 (T.B.D)	✓	YES

CVBS/S-video/Component/RGB

Part No.	Supply Voltage (V)	Input (Digital)	Output (Analog)		Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
			Terminal	Type					
ML86V7655	3.3/2.5	ITU-R BT.656 YUV 8/16/24bit RGB 24bit	CVBS S-video Component	NTSC PAL	I/P, P/I conversion	–40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。
*3 HD-ACT(High Definition-Analog Composite Transport)利用独特的高分辨率技术清晰显示模拟影像。

☆：开发中

视频接口

(LAPIS Technology产品)

LVTTL/LVDS/MIPI 视频接口

Part No.	Supply Voltage (V)	Input	Output	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
ML86795	3.3 (1.8)/1.5	ITU-R BT.656 YUV 8bit Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/888, YUV422-8bit)	ITU-R BT.656 YUV 8/16bit Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/888, YUV422-8bit)	LVTTL/LVDS/MIPI CSI-2 to LVTTL/ LVDS/MIPI CSI-2, MIPI Virtual Channel output	−40 to +105	P-WQFN64 -0909-0.50-63	✓	YES
☆**ML86781**	3.3/1.5	RGB 24bit MIPI CSI-2 (RGB565/888, YUV422-8bit) MIPI DSI (RGB565/888, YUV422-8bit)	Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/888, YUV422-8bit)	LVTTL/MIPI DSI/CSI-2 to LVDS/ MIPI CSI-2 Separate one image into two	−40 to +85	P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
☆**ML86796**	3.3/1.2	MIPI CSI-2 (RGB565/666/888, YUV422-8/10bit, RAW8/10/12/14/16/20/24)×4	MIPI CSI-2 (RGB565/666/888, YUV422-8/10bit, RAW8/10/12/14/16/20/24)×2	MIPI CSI-2 to MIPI CSI-2 Supports 4Virtual Channel inputs/ outputs	−40 to +105 (T.B.D)	P-TQFP100 -1414-0.50-ZK6 (T.B.D)	✓	YES
☆**ML86797**	3.3/1.2	Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/666/888 YUV422-8bit) MIPI DSI (RGB565/888 YUV422-8bit)	Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/666/888 YUV422-8bit) MIPI DSI (RGB565/888 YUV422-8bit)	LVDS to MIPI CSI-2/DSI MIPI CSI-2/DSI to LVDS MIPI CSI-2/DSI to MIPI DSI/CSI-2	−40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	✓	YES
☆**ML86799**	3.3/1.2	Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/666/888 YUV422-8bit) MIPI DSI (RGB565/666/888 YUV422-8bit)	eDP (RGB565/666/888)	LVDS/MIPI CSI-2/DSI to eDP	−40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	✓	YES

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*2 关于AEC-Q100，请咨询销售人员。

☆：开发中

面向小型TFT液晶显示器的显示屏控制器系列

(LAPIS Technology产品)

内置视频解码器、缩放器

Part No.	Supply Voltage (V)	Input (Analog) Terminal	Input (Analog) Type	Input (Digital)	Output	Resolution	OSD	MCU	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
ML86V8201	3.3/1.5	CVBS×2 or S-video×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 YUV 8bit RGB 18/24bit	QVGA to WVGA	Line	–	Rear camera function Image quality adjustment	−40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES
ML86203		CVBS×1	NTSC PAL	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 YUV 8bit Single LVDS (RGB666/888)	VGA to WXGA	–	–	Rear camera function WXGA panel support Image quality adjustment		P-TQFP80 -1010-0.40-ZK6	✓	YES
ML86207		CVBS×2		ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit + Single LVDS (RGB666/888)	ITU-R BT.656 YUV 8bit RGB 18/24bit Single LVDS (RGB666/888)		Text Line BMP (ML86287 Only)	–	LVTTL/LVDS I/F Digital video input ×2 WXGA panel support Rear camera function Picture in Picture (ML86287 Only) Image quality adjustment OSD ROM-OSD function (ML86287 Only)		P-TQFP100 -1414-0.50-ZK6	✓	YES
ML86287											P-TQFP128 -1414-0.40-ZK6-MC	✓	YES
ML86209		CVBS singlex2 or differential×1		ITU-R BT.656 YUV 8/16bit ITU-R BT.1120 like Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/888, YUV422-8bit)	ITU-R BT.656 or MIPI CSI-2 (RGB565/888, YUV422-8bit) + Single/Dual LVDS (RGB666/888)	VGA to Full HD	Text Line BMP	–	LVTTL/LVDS/MIPI CSI-2 I/F Digital video input ×4 Full HD panel support Rear camera function Picture in Picture (ML86289 Only) Image quality adjustment OSD, ROM-OSD function		P-TQFP128 -1414-0.40-Z6K6	✓	YES
ML86289											P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
New ML86290		CVBS singlex3 or differential×1		ITU-R BT.656 YUV 8/16bit ITU-R BT.1120-like MIPI DSI (RGB565/888 YUV422-8bit ARGB8565 (ML86290)) MIPI CSI-2 (RGB565/888, YUV422-8bit)	Dual/Single LVDS (RGB666/888)		BMP	–	Multi Input support LVTTL/MIPI-DSI/ MIPI CSI-2/CVBS I/F Rear camera function Picture in Picture ROM-OSD function (10windows, 2layers (ML86291 Only))		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
New ML86291											P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
ML86V8202C	3.3/1.8	CVBS×2 +(Comp or S-video)×1 +Compx1	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 style YUV 8/16/24bit RGB 18/24bit	QVGA to WXGA	–	–	Component video support Image quality adjustment		P-TQFP100 -1414-0.50-ZK6	✓	YES
ML86240	3.3/1.5	CVBS×4 or CVBS×2 +(Comp or S-video)×1 +Compx1		ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit 2ch	ITU-R BT.656 YUV 8bit RGB 18/24bit		Text Line	–	Component video support Digital video input ×2 Rear camera function Image quality adjustment OSD function		P-TFBGA144 -1111-0.80-1	✓	YES
ML86241	3.3 (1.8)/ 1.5	CVBS×4 or CVBS×2 +(Comp or S-video)×1 +Compx1		ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit + Single LVDS (RGB 18/24bit)	ITU-R BT.656 YUV 8/16bit + RGB 18/24bit YUV 16bit Single LVDS (RGB 18/24bit)		Text Line BMP	–	Component video support LVTTL/LVDS I/F Digital video input ×2 WXGA panel support Rear camera function Image quality adjustment OSD, ROM-OSD function		P-TFBGA144 -1111-0.80-1	✓	YES
New ML86242	3.3/1.5	CVBS singlex2 or differential×1 Component (ML86242 Only)	NTSC PAL	*3 ITU-R BT.656 YUV 8/16bit ITU-R BT.1120 like Single/Dual LVDS (RGB666/888, YUV422-8/16bit, YUV444-24bit)	*3 ITU-R BT.656 YUV 8/16bit RGB 24bit Single/Dual LVDS (RGB666/888) MIPI-CSI2 (RGB565/888 YUV422-16bit)		Text Line BMP	–	*3 Multi Input/Output support LVTTL/LVDS/MIPI CSI-2/ CVBS/Comp I/F Rear camera function Picture in Picture Image quality adjustment OSD, ROM-OSD function State monitor function		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
ML86243											P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
New ML86244											P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
ML86245		–	–	*3 ITU-R BT.656 YUV 8/16bit ITU-R BT.1120 like Single/Dual LVDS (RGB666/888 YUV422-8/16bit)	*3 ITU-R BT.656 YUV 8/16bit RGB 24bit Single/Dual LVDS (RGB666/888)		Text Line BMP	–	Multi Input/Output support LVTTL/LVDS/MIPI CSI-2 I/F Rear camera function Picture in Picture Image quality adjustment OSD, ROM-OSD function State monitor function		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
ML86321		CVBS singlex2 or differential×1	NTSC PAL	ITU-R BT.656 YUV 8/16bit ITU-R BT.1120 like MIPI CSI-2 (RGB565/888, YUV422-8bit)	YUV 8/16bit Single LVDS (RGB666/888)		Text Line BMP	–	Electronic rear-view mirror support 3-screen synthesis Image correction function (Angle/Aspherical/ Keystone/Lens distortion correction) OSD, ROM-OSD function (15windows, 1layer) State monitor function		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES

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*2 关于AEC-Q100，请咨询销售人员。
*3 关于可选择的信号组合，请咨询销售人员。

面向小型TFT液晶显示器的显示屏控制器系列

(LAPIS Technology产品)

内置画质调节功能

Part No.	Supply Voltage (V)	Input (Analog) Terminal	Input (Analog) Type	Input (Digital)	Output	Resolution	OSD	MCU	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
ML86V8101	3.3	–	–	RGB 18bit	RGB 18bit	QVGA to QHD	–	–	Image quality adjustment function	–40 to +85	P-TQFP64-1010-0.50-ZK6	✓	YES
ML86V8102				RGB 18/24bit	RGB 18/24bit				RGB 24bits supported image quality adjustment function		P-TQFP80-1010-0.40-ZK6	✓	YES
New ML86172	3.3/1.5			ITU-R BT.656 YUV 8/10bit RGB 18/24bit Single/Dual LVDS (RGB666/888)	RGB 18/24bit (ML86172 Only) Single/ Dual LVDS (RGB666/888bit)	WVGA to H 2880 (Max) V 1080 (Max) (Pixel rate 160MHz Max)	Text BMP		Image quality adjustment OSD, ROM OSD function (30windows, 2layers) Error Detection (Input data/Input sync/ Output data/Pattern check (ML86172 Only)) Frequency conversion function State monitor function		P-TQFP100-1414-0.50-Z6K6	✓	YES
ML86173											P-TQFP100-1414-0.50-Z6K6	✓	YES
☆ML86174	3.3/1.2			Single/Dual LVDS (RGB565/888) MIPI CSI-2, MIPI DSI (RGB565/888, YUV422-8bit)	Single/ Dual LVDS (RGB666/888)	H 2880 (Max) V 1080 (Max) (Pixel rate 160MHz Max)			Image quality adjustment OSD, ROM OSD function (50windows, 2layers) Error Detection (Input data/Input sync/ Output data/Pattern check) Frequency conversion function State monitor function		P-TQFP100-1414-0.50-Z6K6	✓	YES
ML86175	3.3/1.5			ITU-R BT.656 YUV 8/16bit RGB 18/24bit Single/Dual LVDS (RGB666/888)		H 2048 (Max) V 2048 (Max) (Pixel rate 160MHz Max)			Image quality adjustment 90 degree rotation function OSD, ROM OSD function (15windows, 1layer) Frequency conversion function State monitor function		TQFP128-1414-0.40-Z6K6-MC	✓	YES
New ML86177				RGB 24bit Single LVDS (RGB888)	RGB 24bit Single LVDS (RGB888)	QVGA to WXGA	BMP		Warping and rotation for HUD ROM OSD function (10windows, 2layers) Status output Fail detection function		P-TQFP128-1414-0.40-Z6K6-MC	✓	YES

内置视频解码器、8051MCU

Part No.	Supply Voltage (V)	Input (Analog) Terminal	Input (Analog) Type	Input (Digital)	Output	Resolution	OSD	MCU	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
ML86V8401	3.3/1.8	CVBS×3 or CVBS×2 +S-video×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 RGB 18/24bit	QVGA to WVGA	Text	8051 (8bit)	System control MCU installed	–40 to +85	P-TQFP100-1414-0.50-ZK6	✓	YES

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*2 关于AEC-Q100，请咨询销售人员。

☆：开发中

语音合成LSI

车载用 语音合成LSI	P.98	长时间播放 语音合成LSI	P.99
短时间播放 语音合成LSI	P.99	支持外挂存储器 语音合成LSI	P.99

LAPIS Technology的语音合成LSI拥有约40年的丰富业绩，可用于从住宅到家电、车载用途的各类生活场景，能立即在客户的设备上实现高音质语音解决方案。
该语音合成LSI采用一体化结构，将所需功能集成于1枚芯片，只需直接连接扬声器发送简单的指令，即可播放高音质语音。
而且，从“声音制作”阶段开始就可提供支持，长年受到客户好评。
通过提供产品和支持，用“声音”回应客户“提高产品价值”的愿望。

特点

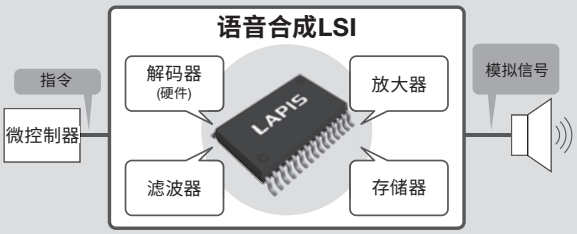
简单…… 直接连接扬声器，只需从微控制器发送指令即可播放语音

音质高…… 确立以ADPCM方式为轴心的音频技术

多功能…… 搭载多语音同时发声功能、故障检测功能等多种功能

减少元件个数…… 内置功放、内存、振荡电路等必要部件

声音制作支持…… 可为从录音棚、播音员的安排到录制音源的分析、编辑、语音代码数据的制作等提供一贯支持



车载用 语音合成LSI

(LAPIS Technology产品)

存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	AEC-Q100 standard
ML22Q532	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +105	Flash 2M	4,096	99sec*1	I²C/ Clock syncronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*4/ Serial Audio Interface/ Failure detection	P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q533					Flash 4M		202sec*1					P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q274	2.0 to 5.5	4.096	Built-in		Flash 692K*5	30/62	28sec*2	Clock syncronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q284						30		Stand-alone				P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q294						30/62		I²C				P-TSSOP20 -0225-0.65-TK6	YES	✓

存储器外挂型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	AEC-Q100 standard
ML22530	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +105	External maximum 128M	4,096	109min*3	I²C/ Clock syncronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*4/Serial Audio Interface/Failure detection	P-TQFP48 -0707-0.50-Z6K6	YES	✓

© Ky's Technology HQ-ADPCM是“Ky's”的高音质语音压缩技术。“Ky's”是国立大学法人九州工业大学的注册商标。

*1 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
*2 用ADPCM2取样，频率为6.4kHz时的最长播放时间
*3 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
*4 使用时钟同步串行时
*5 选择30个短语和选择62个短语时为688Kbit

长时间播放 语音合成LSI

(LAPIS Technology产品)

Flash存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22Q623	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +70	Flash 4M	4,096	202sec*3	Clock syncronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/ Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q624					Flash 8M		406sec*3					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q625					Flash 16M		14min*3					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q626					Flash 32M		27min*3					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q663					Flash 4M		202sec*3	I²C			Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q664					Flash 8M		406sec*3					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q665					Flash 16M		14min*3					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q666					Flash 32M		27min*3					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓

P2ROM™内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22724	2.7 to 3.6 or 4.5 to 5.5	4.096	External	−40 to +85	P2ROM™ 8M	4,096*2	325sec*1	Clock syncronous serial	0.7/ AB-class	1	Speech-speed and pitch conversion	P-SSOP30 -56-0.65-ZK6-MC	–	✓
ML22725					P2ROM™ 16M		11min*1					P-SSOP30 -56-0.65-ZK6-MC	–	✓
ML22764					P2ROM™ 8M		325sec*1	I²C				P-SSOP30 -56-0.65-ZK6-MC	–	✓
ML22765					P2ROM™ 16M		11min*1					P-SSOP30 -56-0.65-ZK6-MC	–	✓

◎Ky's Technology HQ-ADPCM是“Ky' s”的高音质语音压缩技术。“Ky' s”是国立大学法人九州工业大学的注册商标。

◎P2ROM™是LAPIS Technology Co.,Ltd.的商标。

*1 用ADPCM2取样，频率为6.4kHz时的最长播放时间

*2 1024个短语（1Bank）×4Bank

*3 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

短时间播放 语音合成LSI

(LAPIS Technology产品)

D类功放内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22Q234	2.0 to 5.5	8.192	Built-in	−40 to +85	Flash 676K*2	30/62	34sec*1	Clock syncronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	–	✓
ML22Q244					Flash 692K*3			Stand-alone				P-TSSOP20 -0225-0.65-TK6	–	✓
ML22Q254					Flash 676K*2			I²C				P-TSSOP20 -0225-0.65-TK6	–	✓

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*1 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

*2 选择30个短语和选择62个短语时为676Kbit

*3 选择30个短语和选择62个短语时为688Kbit

支持外挂存储器 语音合成LSI

(LAPIS Technology产品)

AB类功放/D类功放内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrase	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22620	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +85	External maximum 128M	4,096	109min*2	Clock syncronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/ Failure detection	P-TQFP32 -0707-0.80-Z6K6 P-WQFN32 -0505-0.50-A63	–	✓
ML22660								I²C			Failure detection	P-TQFP32 -0707-0.80-Z6K6 P-WQFN32 -0505-0.50-A63	–	✓

AB类功放内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrase	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22420	2.7 to 5.5	4.096	External	−40 to +85	External maximum 128M	1,024	87min*1	Clock syncronous serial	0.7/ AB-class	4	–	P-SSOP30 -56-0.65-ZK6	–	✓
ML22460								I²C				P-SSOP30 -56-0.65-ZK6	–	✓

◎Ky's Technology HQ-ADPCM是“Ky' s”的高音质语音压缩技术。“Ky' s”是国立大学法人九州工业大学的注册商标。

*1 使用外挂存储器(Max 128Mbit)时，用ADPCM2取样，频率为6.4kHz时的最长播放时间

*2 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

微控制器

通用微控制器(16bit) ML62Q1000系列	产品阵容丰富，搭载安全功能	P.100
通用微控制器(16bit) ML62Q2000系列/ML62Q2500组	行业优异*1的低功耗(HALT电流 0.6μA)	P.106
通用微控制器(16bit) ML62Q2000系列/ML62Q2700组	搭载语音播放硬件引擎、LCD驱动器	P.106
语音播放微控制器(8bit) ML610Q300	搭载可实现高音质、高压缩的独特算法“HQ-ADPCM*2”	P.108
USB、安全微控制器(32bit) ML630Q400	非常适合USB数据记录仪	P.108
车载微控制器(32bit) ML63Q8000系列	通过搭载HLC*3，可无需软件控制实现外设电路的协同动作	P.110

LAPIS Technology的微控制器凭借多年积累的先进低功耗技术，持续实现了行业优异*1的低功耗。
这种微控制器广泛应用于以高性能数字钟表为代表的电池驱动小型仪表、家电产品、工业设备、社会基础设施等多种用途。
此外，产品阵容中还新增了车载微控制器，使得LAPIS Technology的微控制器在车载设备领域也大显身手。
今后，LAPIS Technology将继续致力于为用户提供并改进低功耗微控制器。

*1 据LAPIS Technology调查
*2 Ky's Technology HQ-ADPCM是“Ky's”的高音质语音压缩技术。“Ky's”是国立大学法人九州工业大学的注册商标。
*3 HLC即“Hardware Linkage Controller”的缩写，是不使用LAPIS Technology独特CPU实现外设电路间协同动作的功能。

产品阵容丰富，搭载安全功能

通用微控制器(16bit) ML62Q1000系列(搭载U16 Core*1)

标准型 ML62Q1300组 ROM容量：16KB to 64KB　引脚个数：16pin to 32pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	
						Input	Output	Input/Output	High Speed	Low Speed				
ML62Q1323	1.6 to 5.5	Flash	16K	2K	2K	–	–	12	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	−40 to +105	
ML62Q1324			24K											
ML62Q1325			32K											
ML62Q1333	1.6 to 5.5	Flash	16K	2K	2K	–	–	16	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	−40 to +105	
ML62Q1334			24K											
ML62Q1335			32K											
ML62Q1345	1.6 to 5.5	Flash	32K	2K	4K	–	–	20	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	−40 to +105	
ML62Q1346			48K											
ML62Q1347			64K											
ML62Q1365	1.6 to 5.5	Flash	32K	2K	4K	–	–	28	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	−40 to +105	
ML62Q1366			48K											
ML62Q1367			64K											

*1 U16 Core：RISC方式的LAPIS Technology先进的16bit CPU nX-U16/100核
*2 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*3 工业设备用途的详情请垂询本公司。

ML62Q1000系列品名构成说明

M	L	6	2	Q	1	3	6	7	□	—	N	N	N	T	B	X	X	X	X
①		②		③			④		⑤		⑥			⑦		⑧			

品名编号

①元器件类型
ML: 逻辑产品
②CPU内核类型
62: 16bit CPU nX-U16/100
③ROM类型
Q: 闪存ROM

⑤选项代码
None ～x: 对每个产品进行设定
⑥ROM代码
NNN : 留空
001 ～xxx : 定制代码

⑦封装代码
GD: WQFN
MB: SSOP
TD: TSSOP
TB: TQFP
GA: QFP
⑧LAPIS Technology公司内部代码

④型号代码

13xx: ML62Q1300组
2x: 16针
3x: 20针
4x: 24针
6x: 32针

x3: ROM 16KB
x4: ROM 24KB
x5: ROM 32KB
x6: ROM 48KB
x7: ROM 64KB

15xx: ML62Q1500组
3x: 48针
4x: 52针
5x: 64针
6x: 80针
7x: 100针

x0: ROM 32KB
x1: ROM 48KB
x2: ROM 64KB
x3: ROM 96KB
x4: ROM 128KB
x5: ROM 160KB
x6: ROM 192KB
x7: ROM 256KB

17xx: ML62Q1700组
(内置LCD驱动器)
0x: 48针
1x: 52针
2x: 64针
3x: 80针
4x: 100针

x0: ROM 32KB
x1: ROM 48KB
x2: ROM 64KB
x3: ROM 96KB
x4: ROM 128KB
x5: ROM 160KB
x6: ROM 192KB
x7: ROM 256KB
x8: ROM 384KB
x9: ROM 512KB

18xx: ML62Q1800组
5x: 64针
6x: 80针
7x: 100针

x8: ROM 384KB
x9: ROM 512KB

(LAPIS Technology产品)

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*2	Industrial Grade*3
						I²C	SSIO	UART									
	4 (8bit×8)	4 (TMR, PWM, IGBT, Capture)	1	10bit×6 (SA type)	–	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	–	P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	–	✓	✓
														P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	–	✓	✓
														P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	–	✓	✓
	4 (8bit×8)	4 (TMR, PWM, IGBT, Capture)	1	10bit×8 (SA type)	–	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	–	P-TSSOP20-0225-0.65-TK6 P-SSOP20-44-0.65-TK6	–	✓	✓
														P-TSSOP20-0225-0.65-TK6 P-SSOP20-44-0.65-TK6	–	✓	✓
														P-TSSOP20-0225-0.65-TK6 P-SSOP20-44-0.65-TK6	–	✓	✓
	6 (8bit×12)	4 (TMR, PWM, IGBT, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	–	P-WQFN24-0404-0.50-A63	–	✓	✓
														P-WQFN24-0404-0.50-A63	–	✓	✓
														P-WQFN24-0404-0.50-A63	–	✓	✓
	6 (8bit×12)	4 (TMR, PWM, IGBT, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	–	P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	–	✓	✓
														P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	–	✓	✓
														P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	–	✓	✓

产品阵容丰富，搭载安全功能

通用微控制器(16bit) ML62Q1000系列(搭载U16 Core*1)

标准型 ML62Q1500组 ROM容量：32KB to 256KB　引脚个数：48pin to 100pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
ML62Q1530	1.6 to 5.5	Flash	32K	4K	8K	2	—	42	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1531			48K										
ML62Q1532			64K										
ML62Q1533			96K										
ML62Q1534			128K										
ML62Q1540	1.6 to 5.5	Flash	32K	4K	8K	2	—	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1541			48K										
ML62Q1542			64K										
ML62Q1543			96K										
ML62Q1544			128K										
ML62Q1550	1.6 to 5.5	Flash	32K	4K	8K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1551			48K										
ML62Q1552			64K										
ML62Q1553			96K										
ML62Q1554			128K										
ML62Q1555			160K		16K	2						5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	
ML62Q1556			192K										
ML62Q1557			256K										
ML62Q1563	1.6 to 5.5	Flash	96K	4K	16K	2	—	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1564			128K										
ML62Q1565			160K										
ML62Q1566			192K										
ML62Q1567			256K										
ML62Q1573	1.6 to 5.5	Flash	96K	4K	16K	2	—	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1574			128K										
ML62Q1575			160K										
ML62Q1576			192K										
ML62Q1577			256K										
ML62Q1543C	1.6 to 5.5	Flash	96K	4K	8K	2	—	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/Crystal oscillation)	−40 to +105
ML62Q1544C			128K										
ML62Q1553C	1.6 to 5.5	Flash	96K	4K	8K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/Crystal oscillation)	−40 to +105
ML62Q1554C			128K										
ML62Q1563C	1.6 to 5.5	Flash	96K	4K	8K	2	—	74	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/Crystal oscillation)	−40 to +105
ML62Q1564C			128K										

标准型 ML62Q1800组 ROM容量：384KB to 512KB　引脚个数：64pin to 100pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
ML62Q1858	1.6 to 5.5	Flash	384K	8K	32K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1859			512K										
ML62Q1868	1.6 to 5.5	Flash	384K	8K	32K	2	—	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1869			512K										
ML62Q1878	1.6 to 5.5	Flash	384K	8K	32K	2	—	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1879			512K										

*1 U16 Core：RISC方式的LAPIS Technology先进的16bit CPU nX-U16/100核
*2 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*3 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*2	Industrial Grade*3
					I²C	SSIO	UART									
6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2		VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP48-0707-0.50-ZK6	—	✓	✓
													P-TQFP48-0707-0.50-ZK6	—	✓	✓
													P-TQFP48-0707-0.50-ZK6	—	✓	✓
													P-TQFP48-0707-0.50-ZK6	—	✓	✓
													P-TQFP48-0707-0.50-ZK6	—	✓	✓
6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2		VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓
													P-TQFP52-1010-0.65-ZK6	—	✓	✓
													P-TQFP52-1010-0.65-ZK6	—	✓	✓
													P-TQFP52-1010-0.65-ZK6	—	✓	✓
													P-TQFP52-1010-0.65-ZK6	—	✓	✓
6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2		VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6		VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓
													P-QFP80-1414-0.65-ZK6	—	✓	✓
													P-QFP80-1414-0.65-ZK6	—	✓	✓
													P-QFP80-1414-0.65-ZK6	—	✓	✓
													P-QFP80-1414-0.65-ZK6	—	✓	✓
8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6		VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx3		VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓
													P-TQFP52-1010-0.65-ZK6	—	✓	✓
6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx4		VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx4		VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓
													P-QFP80-1414-0.65-ZK6	—	✓	✓

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*2	Industrial Grade*3
					I²C	SSIO	UART									
6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2		VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6		VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓
													P-QFP80-1414-0.65-ZK6	—	✓	✓
8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6		VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓

产品阵容丰富，搭载安全功能

通用微控制器(16bit) ML62Q1000系列(搭载U16 Core*1)

搭载LCD驱动器型 ML62Q1700组 ROM容量：32KB to 512KB　引脚个数：48pin to 100pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	
						Input	Output	Input/Output	High Speed	Low Speed				
ML62Q1700	1.6 to 5.5	Flash	32K	4K	8K	2	—	37	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1701			48K											
ML62Q1702			64K											
ML62Q1703			96K											
ML62Q1704			128K											
ML62Q1710	1.6 to 5.5	Flash	32K	4K	8K	2	—	41	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1711			48K											
ML62Q1712			64K											
ML62Q1713			96K											
ML62Q1714			128K											
ML62Q1720	1.6 to 5.5	Flash	32K	4K	8K	2	—	53	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1721			48K											
ML62Q1722			64K											
ML62Q1723			96K											
ML62Q1724			128K											
ML62Q1725			160K		16K							5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)		
ML62Q1726			192K											
ML62Q1727			256K											
ML62Q1728			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)		
ML62Q1729			512K											
ML62Q1733	1.6 to 5.5	Flash	96K	4K	16K	2	—	67	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1734			128K											
ML62Q1735			160K											
ML62Q1736			192K											
ML62Q1737			256K											
ML62Q1738			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)		
ML62Q1739			512K											
ML62Q1743	1.6 to 5.5	Flash	96K	4K	16K	2	—	87	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1744			128K											
ML62Q1745			160K											
ML62Q1746			192K											
ML62Q1747			256K											
ML62Q1748			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)		
ML62Q1749			512K											
ML62Q1713C	1.6 to 5.5	Flash	96K	4K	8K	2	—	41	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1714C			128K											
ML62Q1723C	1.6 to 5.5	Flash	96K	4K	8K	2	—	53	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1724C			128K											
ML62Q1733C	1.6 to 5.5	Flash	96K	4K	8K	2	—	69	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105	
ML62Q1734C			128K											

*1 U16 Core：RISC方式的LAPIS Technology先进的16bit CPU nX-U16/100核
*2 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*3 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*2	Industrial Grade*3
						I²C	SSIO	UART									
	6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	Max 192dot 24seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP48-0707-0.50-ZK6	—	✓	✓
														P-TQFP48-0707-0.50-ZK6	—	✓	✓
														P-TQFP48-0707-0.50-ZK6	—	✓	✓
														P-TQFP48-0707-0.50-ZK6	—	✓	✓
														P-TQFP48-0707-0.50-ZK6	—	✓	✓
	6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	Max 216dot 27seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6	—	✓	✓
	6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	Max 280dot 35seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
	8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	Max 360dot 45seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
	8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	Max 480dot 60seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
	6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×3		VLS×1	Max 216dot 27seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6	—	✓	✓
	6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×4		VLS×1	Max 280dot 35seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
	6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×4		VLS×1	Max 360dot 45seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓

行业优异的功耗(HALT电流 0.6μA)

通用微控制器(16bit) ML62Q2000系列/ML62Q2500

标准型 ML62Q2500组 ROM容量：64KB to 128KB　引脚个数：32pin to 48pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)	
						Input	Output	Input/Output	High Speed	Low Speed				
New ML62Q2502	1.8 to 5.5	Flash	64K	4K	8K	3	—	24	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	−40 to +105	
New ML62Q2504			128K											
New ML62Q2522	1.8 to 5.5	Flash	64K	4K	8K	3	—	32	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	−40 to +105	
New ML62Q2524			128K											
New ML62Q2532	1.8 to 5.5	Flash	64K	4K	8K	3	—	40	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	−40 to +105	
New ML62Q2534			128K											

*1 U16 Core：RISC方式的LAPIS Technology先进的16bit CPU nX-U16/100核
*2 HALT-D模式时。
*3 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。
*4 工业设备用途的详情请垂询本公司。

搭载语音播放硬件引擎、LCD驱动器

通用微控制器(16bit) ML62Q2000系列/ML62Q2700

搭载LCD驱动器型 ML62Q2700组 ROM容量：64KB to 256KB　引脚个数：48pin to 100pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)	
						Input	Output	Input/Output	High Speed	Low Speed				
New ML62Q2725	1.8 to 5.5	Flash	160K	4K	16K	3	—	51	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	−40 to +105	
New ML62Q2726			192K											
New ML62Q2727			256K											
New ML62Q2735	1.8 to 5.5	Flash	160K	4K	16K	3	—	65	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	−40 to +105	
New ML62Q2736			192K											
New ML62Q2737			256K											
New ML62Q2745	1.8 to 5.5	Flash	160K	4K	16K	3	—	85	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	−40 to +105	
New ML62Q2746			192K											
New ML62Q2747			256K											
☆ML62Q2702	1.8 to 5.5	Flash	64K	4K	8K	3	—	35	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	(TBD)	−40 to +105	
☆ML62Q2703			96K											
☆ML62Q2712	1.8 to 5.5	Flash	64K	4K	8K	3	—	39	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	(TBD)	−40 to +105	
☆ML62Q2713			96K											
☆ML62Q2722	1.8 to 5.5	Flash	64K	4K	8K	3	—	51	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	(TBD)	−40 to +105	
☆ML62Q2723			96K											

*1 U16 Core：RISC方式的LAPIS Technology先进的16bit CPU nX-U16/100核
*2 HALT-D模式时。
*3 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。
*4 工业设备用途的详情请垂询本公司。
☆：开发中。本目录中的信息，如遇产品更新等其他原因而发生变更，恕不另行通知。

ML62Q2000系列品名构成说明

M	L	6	2	Q	2	5	0	2	□	—	N	N	N	T	B	X	X	X	X
①		②		③	④				⑤		⑥			⑦		⑧			

品名编号

①元器件类型
　ML: 逻辑产品
②CPU内核类型
　62: 16bit CPU　nX-U16/100
③ROM类型
　Q: 闪存ROM
④型号代码
　25xx: ML62Q2500组
　　0x: 32针
　　2x: 40针
　　3x: 48针
　　x2: ROM 64KB
　　x4: ROM 128KB
　27xx: ML62Q2700组(内置LCD驱动器)
　　0x: 48针
　　1x: 52针
　　2x: 64针
　　3x: 80针
　　4x: 100针
　　x2: ROM 64KB
　　x3: ROM 96KB
　　x5: ROM 160KB
　　x6: ROM 192KB
　　x7: ROM 256KB
⑤选项代码
　None ～x: 对每个产品进行设定
⑥ROM代码
　NNN　　: 留空
　001 ～xxx: 定制代码
⑦封装代码
　GD: WQFN
　TB: TQFP
　GA: QFP
⑧LAPIS Technology公司内部代码

组(搭载U16 Core*1)

(LAPIS Technology产品)

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*3	Industrial Grade*4
						I²C	SSIO	UART									
	6	2 (TMR, PWM, IGBT, Capture)	1	12bit×14 (SA type)	—	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	—	8	Safety function, Multiplier/Divider	—	P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63	—	✓	✓
														P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63	—	✓	✓
	6	2 (TMR, PWM, IGBT, Capture)	1	12bit×14 (SA type)	—	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	—	8	Safety function, Multiplier/Divider	—	P-WQFN40-0606-0.50-63	—	✓	✓
														P-WQFN40-0606-0.50-63	—	✓	✓
	6	2 (TMR, PWM, IGBT, Capture)	1	12bit×14 (SA type)	—	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	—	8	Safety function, Multiplier/Divider	—	P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	—	✓	✓
														P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	—	✓	✓

组(搭载U16 Core*1)

(LAPIS Technology产品)

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*3	Industrial Grade*4
						I²C	SSIO	UART									
	8	8 (TMR, PWM, IGBT, Capture)	1	12bit×16 (SA type)	—	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 280dot 35seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	—	P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	—	✓	✓
														P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	—	✓	✓
														P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	—	✓	✓
	8	8 (TMR, PWM, IGBT, Capture)	1	12bit×16 (SA type)	—	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 360dot 45seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	—	P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6	—	✓	✓
	8	8 (TMR, PWM, IGBT, Capture)	1	12bit×16 (SA type)	—	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 480dot 60seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	—	P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	—	✓	✓
														P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	—	✓	✓
														P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	—	✓	✓
	8	8 (TMR, PWM, IGBT, Capture)	1	12bit×12 (SA type)	—	Master/ Slave×1, Master×2	2	Full Duplex ×2	VLS×1	Max 192dot 24seg× 8com	TBD	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	—	P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	—	✓	✓
														P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	—	✓	✓
	8	8 (TMR, PWM, IGBT, Capture)	1	12bit×12 (SA type)	—	Master/ Slave×1, Master×2	2	Full Duplex ×2	VLS×1	Max 216dot 27seg× 8com	TBD	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6	—	✓	✓
	8	8 (TMR, PWM, IGBT, Capture)	1	12bit×12 (SA type)	—	Master/ Slave×1, Master×2	2	Full Duplex ×2	VLS×1	Max 280dot 35seg× 8com	TBD	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	—	P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	—	✓	✓
														P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	—	✓	✓

搭载可实现高音质、高压缩的独特算法“HQ-ADPCM”

语音播放微控制器(8bit) ML610Q300(搭载U8 Core*1)

标准型 ROM容量：96KB to 256KB　引脚个数：32pin to 64pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	Memory for Sound	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	
							Input	Output	Input/ Output	High Speed	Low Speed				
ML610Q305	2.0 to 5.5	Flash	96K	2K	Flash ROM	1K	1	3	12	8.192MHz	32.768kHz (Internal RC oscillation)	0.122µs/ 30.5µs	2.0µA	−40 to +85	
ML610Q306									15						
New ML610Q327	2.0 to 5.5	Flash	192K	2K	Flash ROM	4K	—	6	26	8.192MHz	32.768kHz (Internal RC oscillation)	0.122µs/ 30.5µs	2.0µA	−40 to +85	
New ML610Q338	2.0 to 5.5	Flash	256K	2K	Flash ROM	4K	—	6	30	8.192MHz	32.768kHz (Internal RC oscillation)	0.122µs/ 30.5µs	2.0µA	−40 to +85	
New ML610Q339									42						

◎Ky's Technology HQ-ADPCM是“Ky's”的高音质语音压缩技术。“Ky's”是国立大学法人九州工业大学的注册商标。

*1 U8 Core：RISC方式的LAPIS Technology先进的8bit CPU nX-U8/100核
*2 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*3 工业设备用途的详情请垂询本公司。

非常适合USB数据记录仪

USB、安全微控制器(32bit) ML630Q400

搭载LCD驱动器型 ROM容量：64KB to 128KB　引脚个数：100pin(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	Co-processor for Multiplication and Division	8bit Timer	16bit Multi Functions Timer	
						Input	Output	Input/ Output	High Speed	Low Speed							
ML630Q464	1.8 to 3.6	Flash	64K	2K	8K	—	—	38	16MHz (Internal RC oscillation) 24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41.7ns/ 30.5µs	0.8µA (Crystal oscillation)	−40 to +85	32bit multiplier	8 (16bitx4)	4	
ML630Q466			128K		16K												

◎Arm及Cortex是ARM Limited(或其子公司)在EU或其他国家的注册商标。
*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 工业设备用途的详情请垂询本公司。

ML610Q/ML630Q系列品名构成说明

M	L	6	1	0	Q	3	0	6	□	—	N	N	N	G	D	x	x	x	x
①		②			③	④			⑤		⑥			⑦		⑧			

品名编号

①元器件类型
ML: 逻辑产品

②CPU内核类型
610: 8bit CPU　nX-U8/100
630: 32bit CPU　Arm® Cortex®-M0+

③ROM类型
Q: 闪存ROM

④型号代码
3xx: Built-in Speech Playback function
4xx: Low Power

⑤选项代码
None ～x: 对每个产品进行设定

⑥ROM代码
NNN: 留空
001 ～xxx: 定制代码

⑦封装代码
GD: WQFN
TB: TQFP

⑧LAPIS Technology公司内部代码

(LAPIS Technology产品)

	8bit Timer	PWM	WDT	ADC (method)	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	SP Amp Output (W)/ Class	Others	Notes	Package	Chip Support	Halogen Free Support*2	Industrial Grade*3
					I²C	SSIO	UART										
	4 (16bit×2)	—	1	10bit×3 (SA type)	Master/ Slave x1	2	Half Duplex ×1	LLD×1	—	9	1.0 (@5V)/ D class	Speech playback function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	—	P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	—	✓	✓
				10bit×4 (SA type)										P-WQFN36-0606-0.50-A63	—	✓	✓
	4 (16bit×2)	3	1	10bit×8 (SA type)	Master/ Slave x1	2	Half Duplex ×2	LLD×1	—	8	1.0 (@5V)/ D class	Speech playback function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	—	P-TQFP48-0707-0.50-ZK6	—	✓	✓
	4 (16bit×2)	3	1	10bit×8 (SA type)	Master/ Slave x1	2	Half Duplex ×2	LLD×1	—	8	1.0 (@5V)/ D class	Speech playback function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6	—	✓	✓

(搭载Arm® Cortex®-M0+)

(LAPIS Technology产品)

	PWM	Capture	WDT	ADC (method)	Serial Port				Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*1	Industrial Grade*2
					I²C	SSIO (SPI)	UART	USB									
	16bit×4 (use 16bit Timer)	16bit×4 (use 16bit Timer)	1	24bit×2 (RC type) 12bit×12 (SA type)	Master/ Slave ×2	2	Full Duplex ×2	1	VLS×1, LLD×1	Max 400dot 50seg× 8com	8	AES 128bit HW accelerator (CBC, CTR, CTR), Random generator, DMA, RTC, Analog comparator×2, 1kHz Timer	—	P-TQFP100-1414-0.50-ZK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6	—	✓	✓

通过搭载HLC*1，可无需软件控制实现外设电路的协同动作

车载微控制器(32bit) ML63Q8000系列(搭载Arm® Core)

传感器、执行机构用型　ML63Q8000组(搭载Cortex®-M0+)　ROM容量：128KB to 480KB

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port (Max)	Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	16bit Timer	32bit Timer	
							High Speed	Low Speed						
New ML63Q8034	2.7 to 5.5	Flash	128K	8K	16K	37	48MHz	256kHz	20.8ns	(TBD)	−40 to +125	17 (TMR, PWM, Capture)	4	
New ML63Q8036			256K	16K	32K									
New ML63Q8037			480K											
New ML63Q8054	2.7 to 5.5	Flash	128K	8K	16K	53	48MHz	256kHz	20.8ns	(TBD)	−40 to +125	17 (TMR, PWM, Capture)	4	
New ML63Q8056			256K	16K	32K									
New ML63Q8057			480K											

◎Arm及Cortex是ARM Limited(或其子公司)在EU或其他国家的注册商标。
*1 HLC即“Hardware Linkage Controller”的缩写，是不使用LAPIS Technology独特CPU实现外设电路间协同动作的功能。
*2 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*3 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

引脚个数：48pin to 64pin

	ADC (method)	DAC	Analog Comparator	Serial Port				CAN	LIN	Supply Voltage Detection	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*2	Automotive Grade*3	Functional safety Support
				I²C	SSIO (SPI)	UART	I²S											
	12bit×16 (SA type)	12bit×1	1ch×5	Master/ Slave×2	4	Full Duplex ×2	Master×1	1	Master/ Slave×2	LVD×1	8	HLC*1, WDT, RTC, DMA, CRC, Clock Monitor	—	P-TQFP48-0707-0.50-ZK6	—	✓	YES	✓
														P-TQFP48-0707-0.50-ZK6	—	✓	YES	✓
														P-TQFP48-0707-0.50-ZK6	—	✓	YES	✓
	12bit×16 (SA type)	12bit×1	1ch×5	Master/ Slave×2	4	Full Duplex ×2	Master×1	1	Master/ Slave×2	LVD×1	8	HLC*1, WDT, RTC, DMA, CRC, Clock Monitor	—	P-TQFP64-1010-0.50-ZK6	—	✓	YES	✓
														P-TQFP64-1010-0.50-ZK6	—	✓	YES	✓
														P-TQFP64-1010-0.50-ZK6	—	✓	YES	✓

ROHM封装

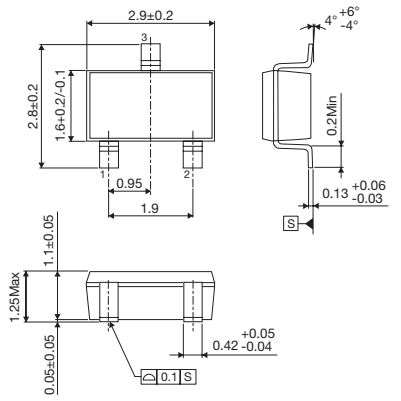
Small封装 ····· P.112
SOP封装 ····· P.113
HSOP封装 ····· P.113
HTSOP封装 ····· P.113
SOP特殊封装 ····· P.114
Non-lead封装 ····· P.115
Optical Non-lead封装 ····· P.116
MMP封装 ····· P.116
SON封装 ····· P.117
SON特殊封装 ····· P.117
QFP封装 ····· P.117
QFN封装 ····· P.118
BGA封装 ····· P.119
特殊封装 ····· P.119
WL-CSP封装 ····· P.120
Power封装 ····· P.121

Small封装

(单位：mm)

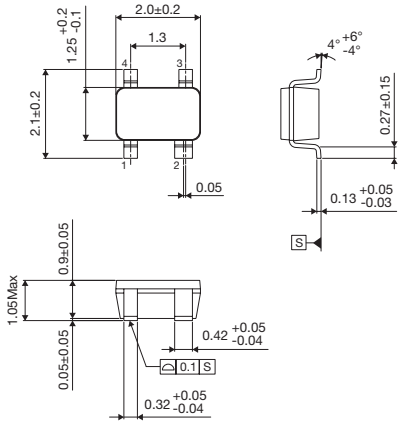
SOP封装

SSOP3



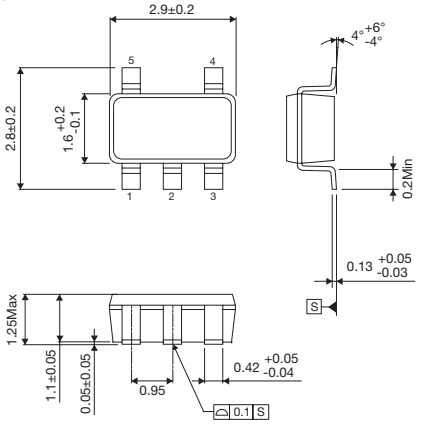
Taping: 3,000pcs

SOP4



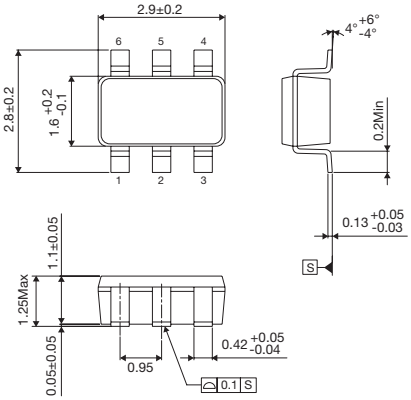
Taping: 3,000pcs

SSOP5



Taping: 3,000pcs

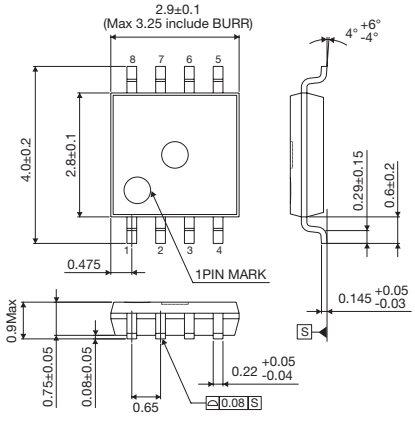
SSOP6



Taping: 3,000pcs

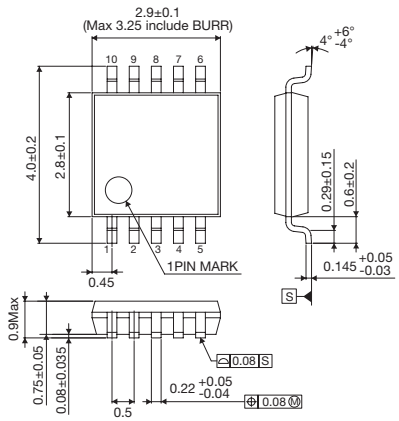
MSOP封装

MSOP8



Taping: 3,000pcs

MSOP10



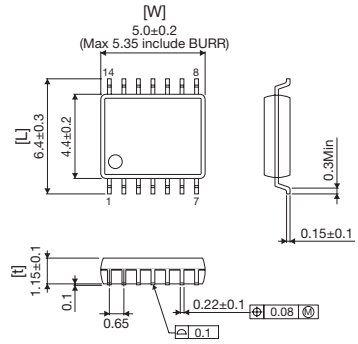
Taping: 3,000pcs

注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

SOP封装

(单位：mm)

SSOP Package (for SSOP-B14)



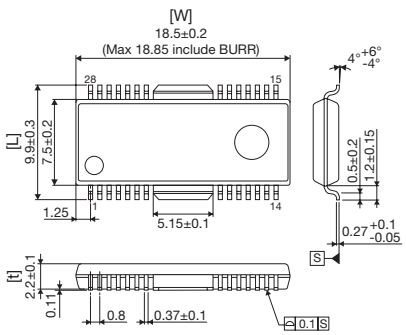
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SOP Package Pin Pitch: 1.27mm	SOP8	8	6.2	5.0	1.61	2,500
	SOP-JW8		6.0	4.9	1.65	2,500
	SOP14	14	6.2	8.7	1.61	2,500
	SOP-J14		6.0	8.65	1.65	2,500
	SOP16	16	6.2	10.0	1.61	2,500
	SOP-J16A		6.0	9.9	1.55	2,500
	SOP18	18	7.8	11.2	1.91	2,000
	SOP20A	20	10.3	12.8	2.5	1,500
	SOP24	24	7.8	15.0	1.91	2,000
	SOP28	28	9.9	18.5	2.31	1,500
	SOP-J8	8	6.0	4.9	1.55	2,500
SSOP-A Package Pin Pitch: 0.8mm	SSOP-A16	16	6.2	6.6	1.61	2,500
	SSOP-A20	20	7.8	8.7	1.91	2,000
	SSOP-A24	24	7.8	10.0	1.9	2,000
	SSOP-A32	32	7.8	13.6	1.91	2,000
SSOP-B Package Pin Pitch: 0.65mm	SSOP-B8	8	6.4	3.0	1.25	2,500
	SSOP-B10W	10	10.2	3.5	1.9	1,500
	SSOP-B14	14	6.4	5.0	1.25	2,500
	SSOP-B16	16	6.4	5.0		2,500
	SSOP-B20	20	6.4	6.5		2,500
	SSOP-B20W		8.1	6.5	1.81	2,000
	SSOP-B24	24	7.6	7.8	1.25	2,000
	SSOP-B28	28	7.6	10.0		2,000
	SSOP-B28W		10.4	9.2	2.4	1,500
	SSOP-B40	40	7.8	13.6	1.9	2,000
TSSOP-B Package Pin Pitch: 0.65mm	TSSOP-B8	8	6.4	3.0	1.2	3,000
	TSSOP-B8J		4.9	3.0	1.1	2,500
	TSSOP-B14J	14	6.4	5.0	1.2	2,500
TSSOP-C Package Pin Pitch: 0.5mm	TSSOP-C48V	48	8.1	12.5	1.0	2,000

注：尺寸详图请确认罗姆官网。

HSOP封装(双侧带散热片)

(单位：mm)

HSOP Package (for HSOP-M28)



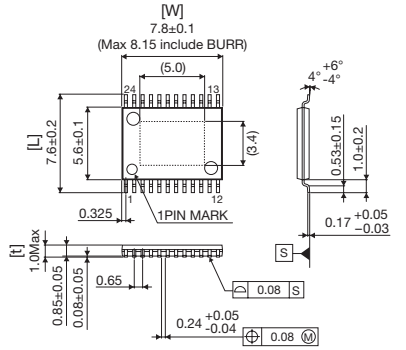
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
HSOP Package Pin Pitch: 1.27mm	HSOP20	20	7.8	14.9	2.1	2,000
HSOP Package Pin Pitch: 0.8mm	HSOP25	25	7.8	13.6	2.01	2,000
HSOP-M Package Pin Pitch: 0.8mm	HSOP-M28	28	9.9	18.5	2.31	1,500
	HSOP-M36	36	9.9	18.5	2.4	1,500

注：尺寸详图请确认罗姆官网。

HTSOP封装(背面带散热片)

(单位：mm)

HTSSOP Package (for HTSSOP-B24)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
HTSOP Package Pin Pitch: 1.27mm	HTSOP-J8	8	6.0	4.9	1.0	2.4×3.2	2,500
	HTSOP-J8ES	8	6.0	4.9		1.8×2.2	2,500
HTSSOP-A Package Pin Pitch: 0.8mm	HTSSOP-A44	44	9.5	18.5	1.0	5.0×6.0	1,500
	HTSSOP-A44R		9.5	18.5		5.0×6.0 (surface)	1,500
HTSSOP-B Package Pin Pitch: 0.65mm	HTSSOP-B16	16	6.4	5.0	1.0	2.4×3.0	2,500
	HTSSOP-B20	20	6.4	6.5		2.4×4.0	2,500
	HTSSOP-B24	24	7.6	7.8		3.4×5.0	2,000
	HTSSOP-B28	28	6.4	9.7		2.9×5.5	2,500
	HTSSOP-B30	30	7.6	10.0		3.7×5.8	2,000
	HTSSOP-B40	40	7.8	13.6		3.4×8.4	2,000
	HTSSOP-B54	54	9.5	18.5		5.0×6.0	1,500
HTSSOP-C Package Pin Pitch: 0.5mm	HTSSOP-C48	48	8.1	12.5	1.0	4.2×5.0	2,000
	HTSSOP-C48R	48	8.1	12.5		4.2×5.0 (surface)	2,000
	HTSSOP-C64	64	8.1	17.2	1.1	3.05×4.45	2,000
HSSOP-C Package Pin Pitch: 0.5mm	HSSOP-C16	16	6.0	4.9	1.7	about 2.5×4.12	2,500

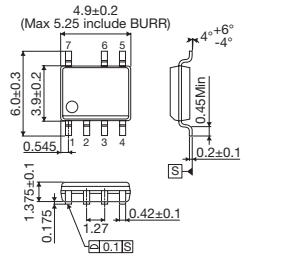
注：尺寸详图请确认罗姆官网。

注：LAPIS Technology产品的封装请参照“LAPIS Technology LSI封装”。

SOP特殊封装

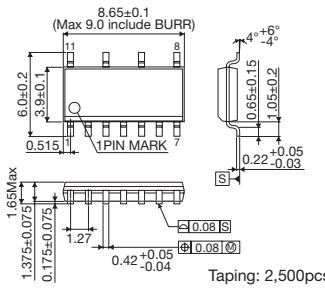
(单位：mm)

SOP-J7S



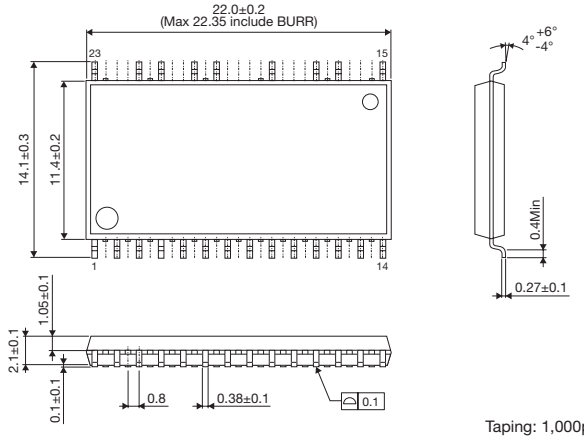
Taping: 2,500pcs

SOP-J11



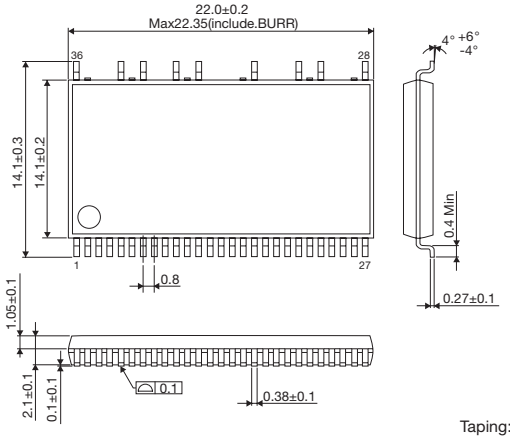
Taping: 2,500pcs

SSOP-A54_23



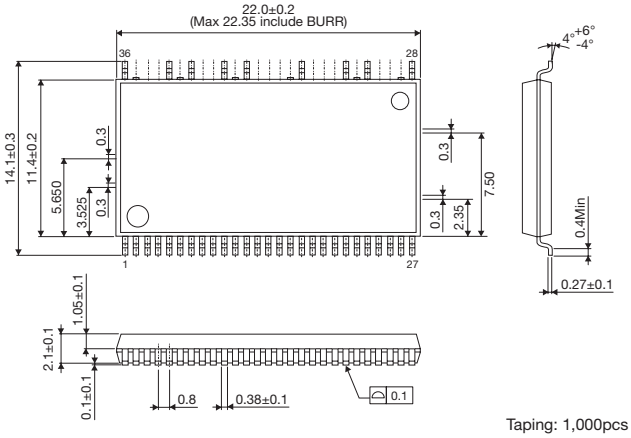
Taping: 1,000pcs

SSOP-A54_36



Taping: 1,000pcs

SSOP-A54_36A



Taping: 1,000pcs

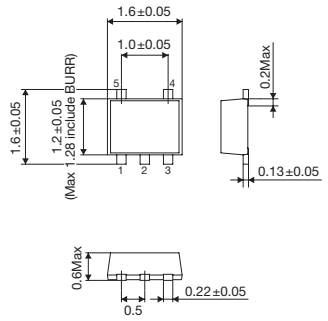
注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

Non-lead封装

(单位：mm)

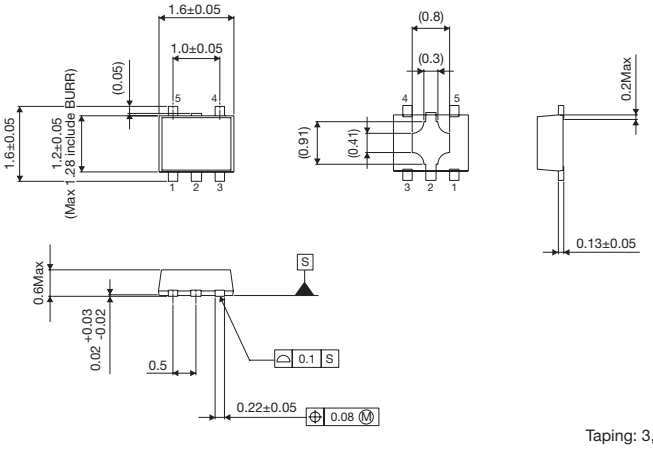
VSOF封装

VSOF5



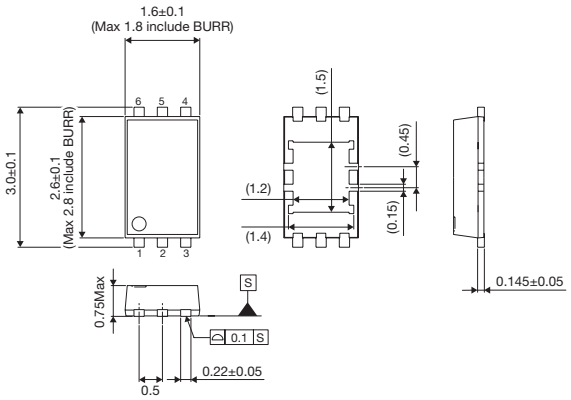
Taping: 3,000pcs

HVSOF5 (With back heat sink)



Taping: 3,000pcs

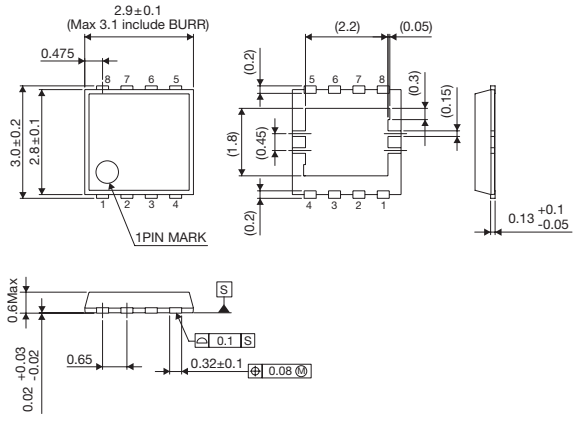
HVSOF6 (With back heat sink)



Taping: 3,000pcs

HSON封装(背面带散热片)

HSON8



Taping: 3,000pcs

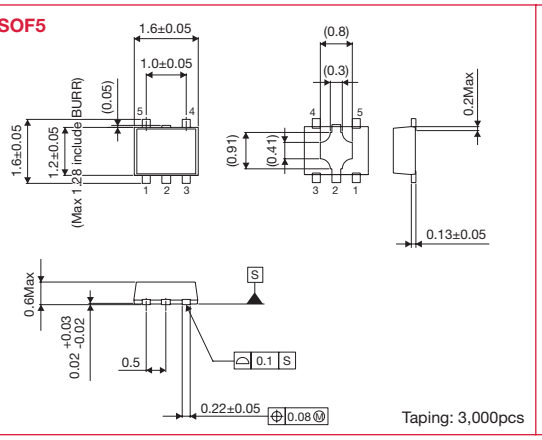
注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

Optical Non-lead封装(背面带散热片)

(单位：mm)

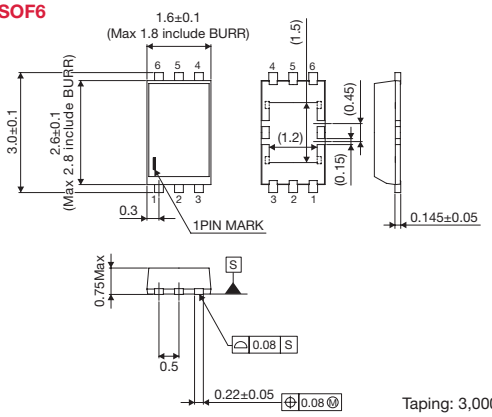
WSOF封装

WSOF5



Taping: 3,000pcs

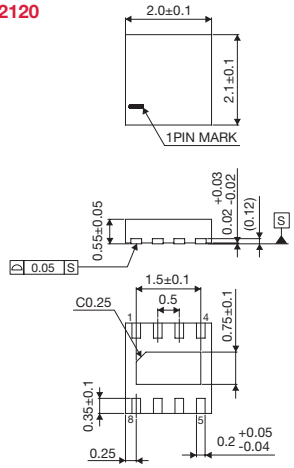
WSOF6



Taping: 3,000pcs

WSOF封装

WSON008X2120



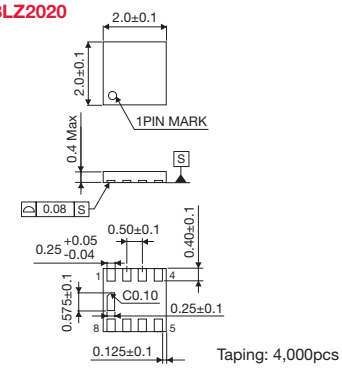
Taping: 4,000pcs

MMP封装

(单位：mm)

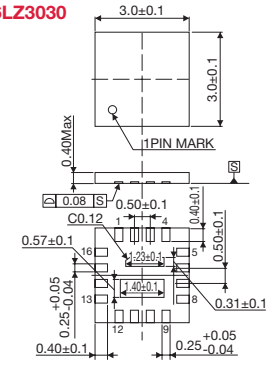
VMMP封装

VMMP08LZ2020



Taping: 4,000pcs

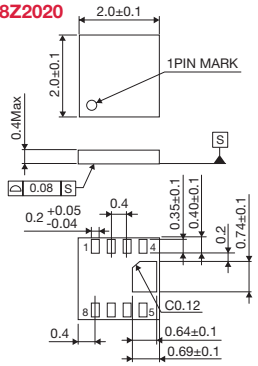
VMMP16LZ3030



Taping: 2,500pcs

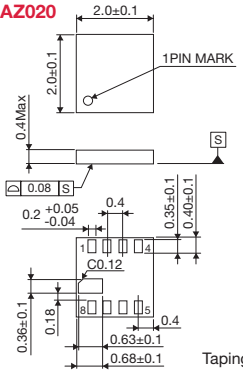
UMMP封装

UMMP008Z2020



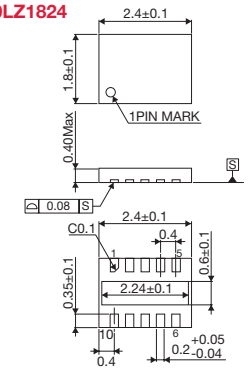
Taping: 4,000pcs

UMMP008AZ020



Taping: 4,000pcs

UMMP10LZ1824



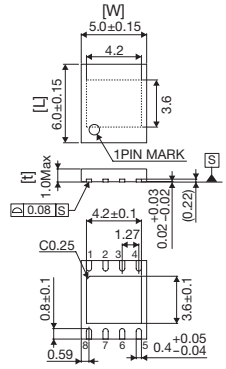
Taping: 2,500pcs

注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

SON封装(背面带散热片)

(单位：mm)

SON Package (for SON008V5060)



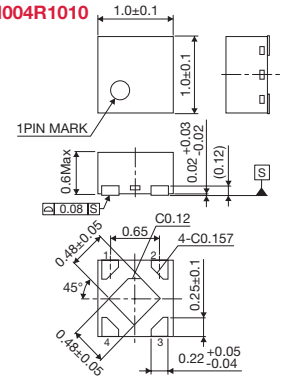
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
SON Package Pin Pitch: 1.27mm	SON008V5060	8	6.0	5.0	1.0	3.6×4.2	2,000
SSON Package Pin Pitch: 0.65mm	SSON004X1010	4	1.0	1.0	0.6	0.48×0.48	5,000
	SSON004X1216		1.6	1.2		0.8×0.75	5,000
USON Package Pin Pitch: 0.4mm	USON014X3020	14	2.0	3.0	0.6	0.8×2.5	4,000
	USON016X3315	16	1.5	3.3		0.6×2.9	4,000
VSON Package Pin Pitch: 0.5mm	VSON008V2030	8	3.0	2.0	1.0	1.4×1.5	3,000
	VSON008X2020		2.0	2.0	0.6	0.8×1.5	4,000
	VSON008X2030		3.0	2.0		1.4×1.5	4,000
	VSON010V3030	10	3.0	3.0	1.0	1.2×2.0	3,000
	VSON010X3020		2.0	3.0	0.6	0.64×2.0	4,000
	VSON010X3030		3.0	3.0		1.2×2.0	4,000
	VSON10FV3030		3.0	3.0	1.0	1.2×2.0	3,000

注：尺寸详图请确认罗姆官网。

SON特殊封装(背面带散热片)

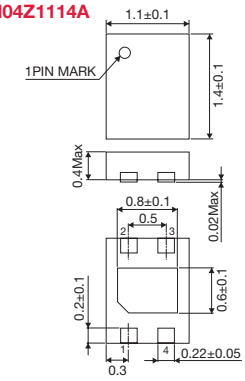
(单位：mm)

SSON004R1010



Taping: 5,000pcs

VSON04Z1114A

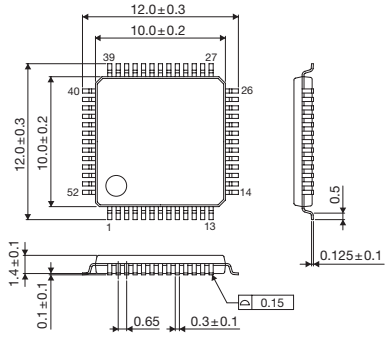


Taping: 5,000pcs

QFP封装

(单位：mm)

SQFP Package (for SQFP-T52)



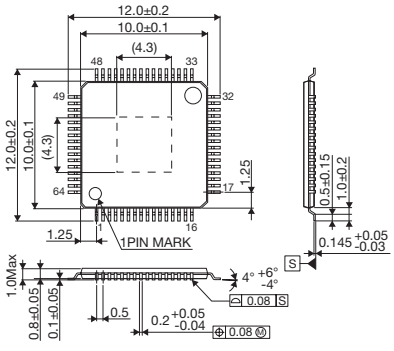
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) Tray	Package (pcs) Taping
SQFP-T Package Pin Pitch: 0.65mm	SQFP-T52	52	12.0	12.0	1.5	1,000	1,000
	SQFP-T64	64	14.0	14.0		1,000	–
	SQFP-T80C	80	16.0	16.0		500	–
TQFP Package Pin Pitch: 0.5mm	TQFP48V	48	9.0	9.0	1.2	1,000	1,500
	TQFP64V	64	12.0	12.0	1.1	1,000	1,000
	TQFP100V	100	16.0	16.0	1.2	500	500
VQFP Package Pin Pitch: 0.5mm	VQFP48C	48	9.0	9.0	1.6	1,000	1,500
	VQFP64	64	12.0	12.0		1,000	1,000
	VQFP80	80	14.0	14.0		1,000	1,000
	VQFP100	100	16.0	16.0		500	500

注：尺寸详图请确认罗姆官网。

QFP封装(背面带散热片)

(单位：mm)

HTQFP Package (for HTQFP64AV)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) Tray	Package (pcs) Taping
HTQFP Package Pin Pitch: 0.5mm	HTQFP48V	48	9.0	9.0	1.0	4.4×4.4	–	1,500
	HTQFP64AV	64	12.0	12.0		4.3×4.3	–	1,000
	HTQFP64BV		12.0	12.0		6.5×6.5	–	1,000
HTQFP Package Pin Pitch: 0.4mm	HTQFP128UA	128	16.0	16.0	1.2	6.6×6.6	–	900
HQFP Package Pin Pitch: 0.5mm	HQFP144VM	144	22.0	22.0	1.6	6.0×6.0	–	60

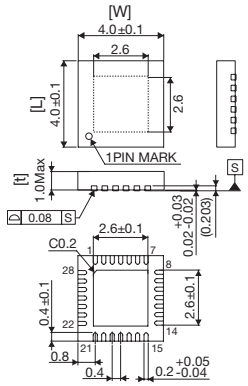
注：尺寸详图请确认罗姆官网。

注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

QFN封装(背面带散热片)

(单位：mm)

UQFN Package (for UQFN28V4040A)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
SQFN Package Pin Pitch: 0.65mm	SQFN016V4040	16	4.0	4.0	1.0	2.1×2.1	2,500
UQFN Package Pin Pitch: 0.4mm	UQFN28V4040A	28	4.0	4.0	1.0	2.6×2.6	2,500
	UQFN036V5050	36	5.0	5.0		2.7×2.7	2,500
	UQFN040V5050	40	5.0	5.0		3.3×3.3	2,500
	UQFN056V7070	56	7.0	7.0		4.7×4.7	1,500
	UQFN56BV7070		7.0	7.0		4.0×4.0	1,500
	UQFN68CV8080	68	8.0	8.0		4.3×4.3	1,000
	UQFN88MV0100	88	10.0	10.0		7.8×7.8	1,000
VQFN Package Pin Pitch: 0.5mm	VQFN11X3535A	11	3.5	3.5	0.6	–	2,500
	VQFN016V3030	16	3.0	3.0	1.0	1.4×1.4	3,000
	VQFN16FV3030		3.0	3.0		1.4×1.4	3,000
	VQFN16KV3030		3.0	3.0		1.4×1.4	3,000
	VQFN16Z3030A		3.0	3.0	0.4	1.8×1.8	4,000
	VQFN20	20	4.2	4.2	0.95	–	2,500
	VQFN20FV3535		3.5	3.5	1.0	2.05×2.05	2,500
	VQFN20FV4040		4.0	4.0		2.1×2.1	2,500
	VQFN20PV3535		3.5	3.5		2.05×2.05	2,500
	VQFN20QV3535		3.5	3.5		2.05×2.05	2,500
	VQFN020V4040		4.0	4.0		2.1×2.1	2,500
	VQFN24FV4040	24	4.0	4.0		2.4×2.4	2,500
	VQFN24SV4040		4.0	4.0		2.4×2.4	2,500
	VQFN024V4040		4.0	4.0		2.4×2.4	2,500
	VQFN28FV5050	28	5.0	5.0		2.7×2.7	2,500
	VQFN28SV5050		5.0	5.0		2.7×2.7	2,500
	VQFN028V5050		5.0	5.0		2.7×2.7	2,500
	VQFN32FBV050	32	5.0	5.0		3.4×3.4	2,500
	VQFN32FAV050		5.0	5.0		3.4×3.4	2,500
	VQFN32SV5050		5.0	5.0		3.4×3.4	2,500
	VQFN032V5050		5.0	5.0		3.4×3.4	2,500
	VQFN36	36	6.2	6.2	0.95	–	2,500
	VQFN036V6060		6.0	6.0	1.0	3.6×3.6	2,000
	VQFN40W6060A	40	6.0	6.0	0.8	4.5×4.5	2,000
	VQFN040V6060		6.0	6.0	1.0	3.7×3.7	2,000
	VQFN40FV6060		6.0	6.0		4.4×4.4	2,000
	VQFN48V7070A	48	7.0	7.0	0.9	5.3×5.3	1,500
	VQFN48MCV070		7.0	7.0	1.0	5.6×5.6	1,500
	VQFN48FV7070		7.0	7.0		3.2×3.2	1,500
	VQFN048V7070		7.0	7.0		4.7×4.7	1,500
	VQFN56AV8080	56	8.0	8.0		3.4×3.4	1,000
	VQFN56FV8080		8.0	8.0		5.5×5.5	1,000
WQFN Package Pin Pitch: 0.5mm	WQFN12X2520A	12	2.5	2.0	0.5	–	4,000

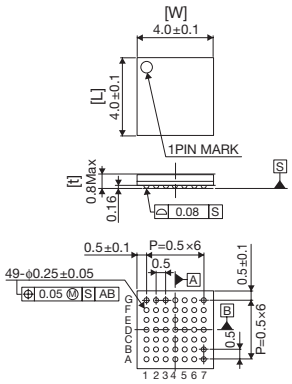
注：尺寸详图请确认罗姆官网。

注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

BGA封装

(单位：mm)

VBGA Package (for VBGA049W040A)



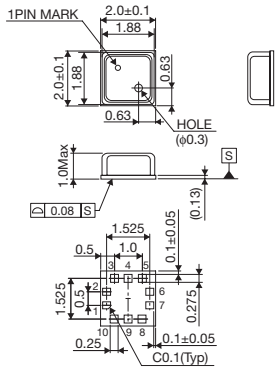
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SBGA Package Pin Pitch: 0.65mm	SBGA072T070A	72	7.0	7.0	1.2	1,500
VBGA Package Pin Pitch: 0.5mm	VBGA048W040	48	4.0	4.0	0.9	2,500
	VBGA049W040A	49	4.0	4.0	0.8	2,500
	VBGA064T050A	64	5.0	5.0	1.2	2,500
	VBGA099W060	99	6.0	6.0	0.9	2,000

注：尺寸详图请确认罗姆官网。

特殊封装

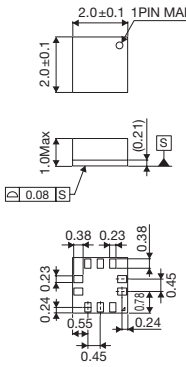
(单位：mm)

CLGA10V020A



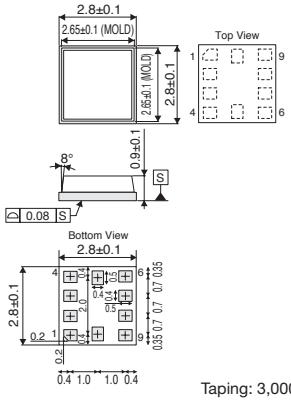
Taping: 3,000pcs

MLGA010V020A



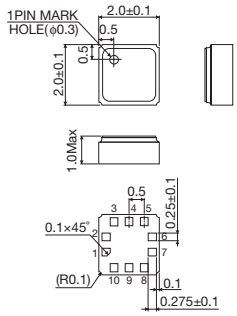
Taping: 2,500pcs

WLGA010V28



Taping: 3,000pcs

RLGA10V020T/ RLGA10VG020T

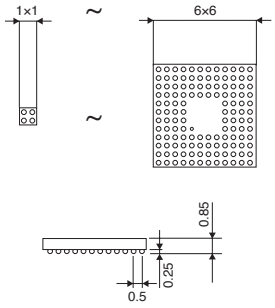
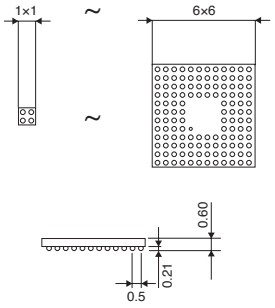
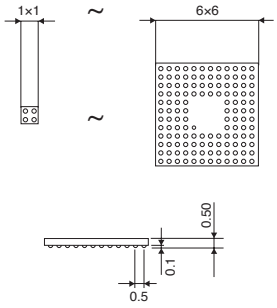
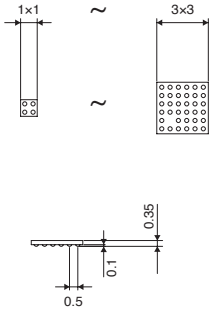


注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

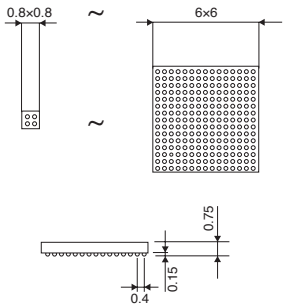
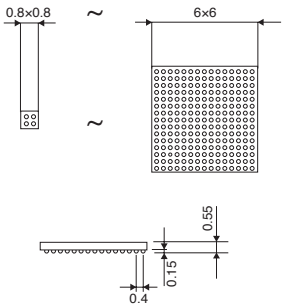
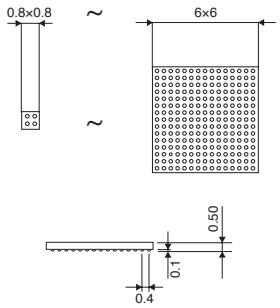
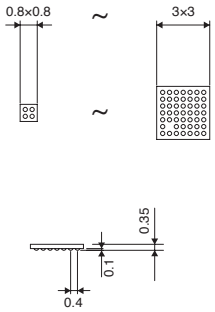
WL-CSP封装

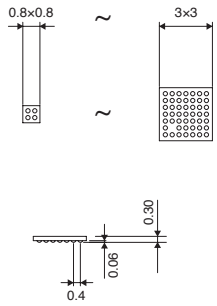
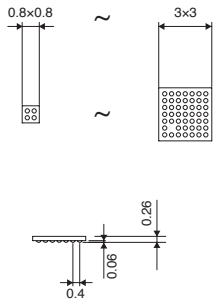
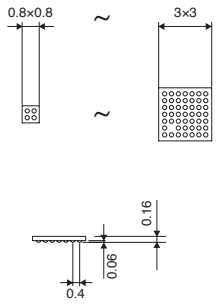
(单位：mm)

VCSP <引脚间距：0.5mm>

VCSP85H	VCSP60N	VCSP50L	VCSP35L
			
2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs

UCSP <引脚间距：0.4mm>

UCSP75M	UCSP55M	UCSP50L	UCSP35L
			
2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs

UCSP30L	UCSP25L	UCSP16X
		
2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs	Embossed carrier tape: 3,000pcs	Embossed carrier tape: 3,000pcs

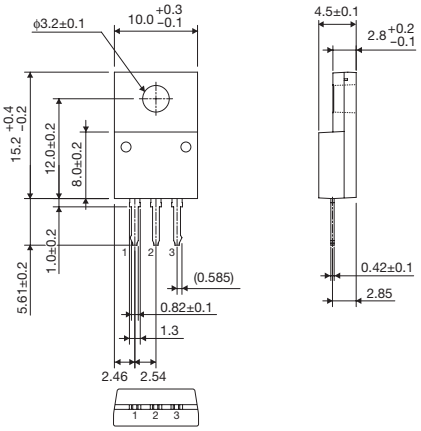
注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

Power封装

(单位：mm)

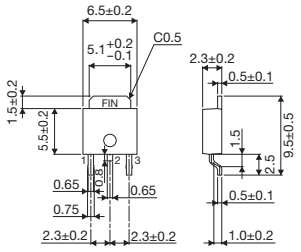
Power-3pin

TO220CP-3



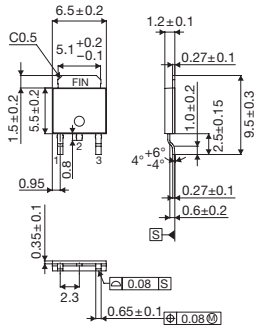
Taping: 500pcs

TO252-3



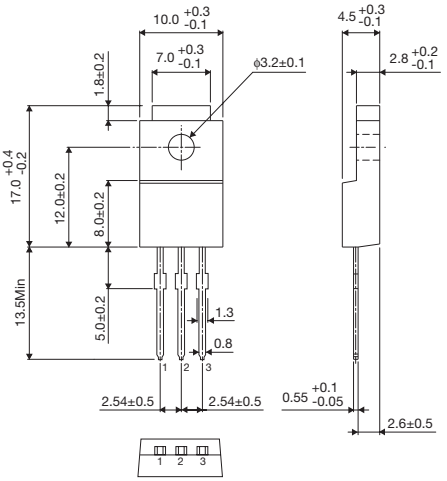
Taping: 2,000pcs

TO252S-3



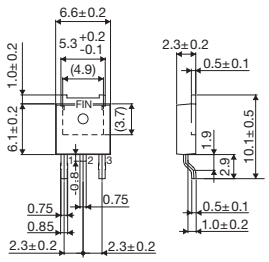
Taping: 2,000pcs

TO220FP-3



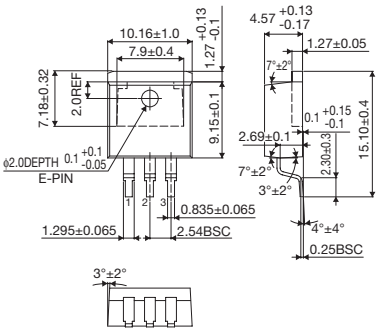
Container tube: 500pcs

TO252-J3



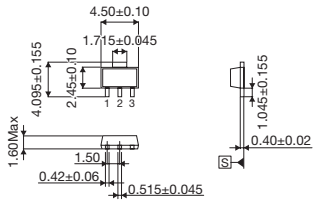
Taping: 2,000pcs

TO263-3



Taping: 500pcs

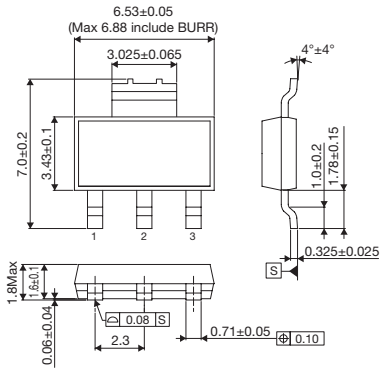
SOT89-3K



Taping: 1,000pcs

Power-4pin

SOT223-4



Taping: 2,000pcs

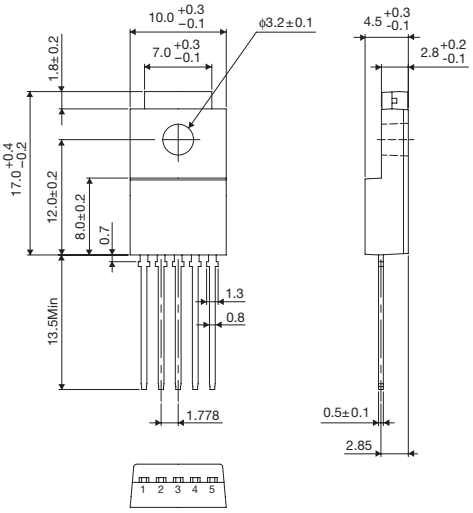
注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

Power封装

(单位：mm)

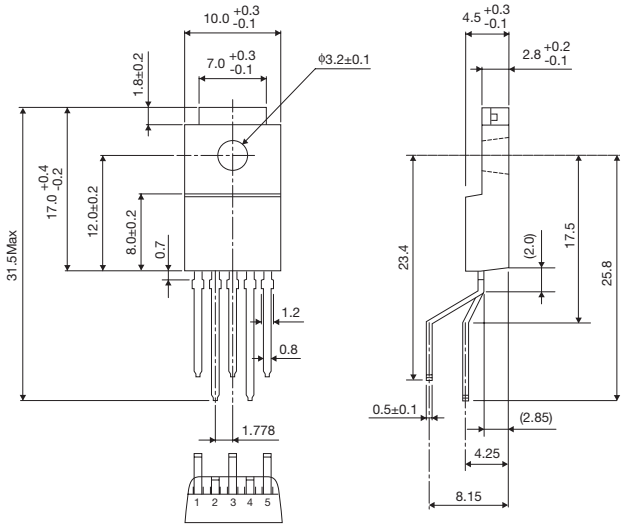
Power-5pin

TO220FP-5



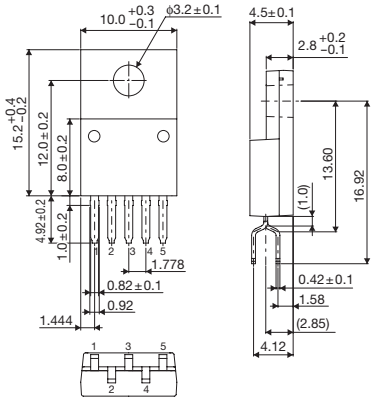
Tube: 500pcs

TO220FP-5 (V5)



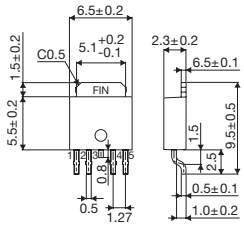
Tube: 500pcs

TO220CP-V5



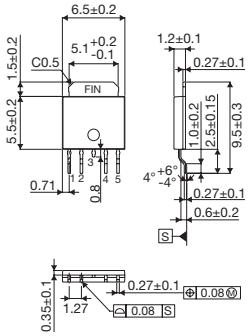
Taping: 500pcs

TO252-5



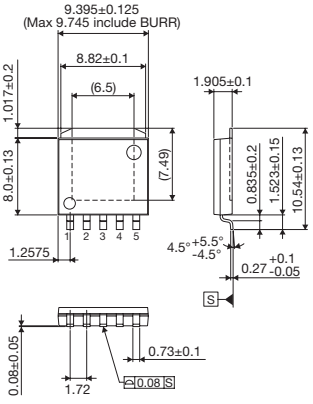
Taping: 2,000pcs

TO252S-5



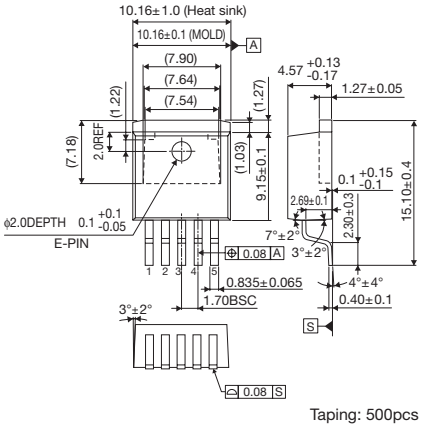
Taping: 2,000pcs

HRP5



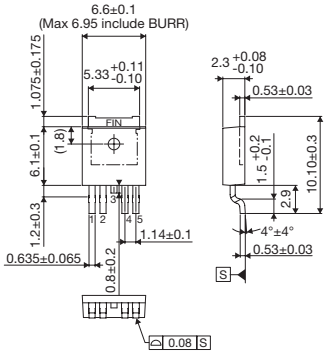
Taping: 2,000pcs

TO263-5



Taping: 500pcs

TO252-J5



Taping: 2,000pcs

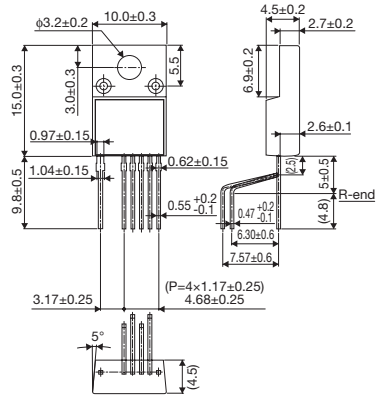
注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

Power封装

(单位：mm)

Power-6pin

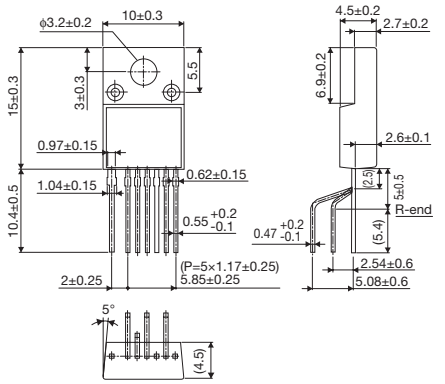
TO220-6M



Container tube: 238pcs

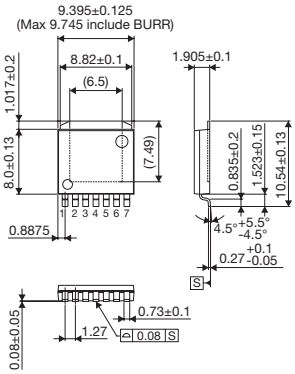
Power-7pin

TO220-7M



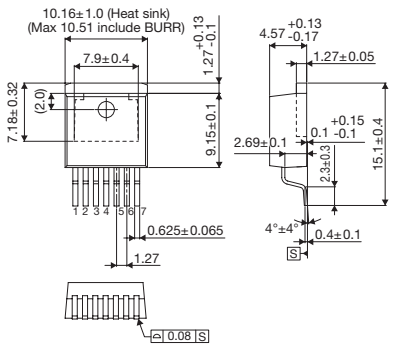
Container tube: 238pcs

HRP7



Taping: 2,000pcs

TO263-7



Taping: 2,000pcs

注：Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

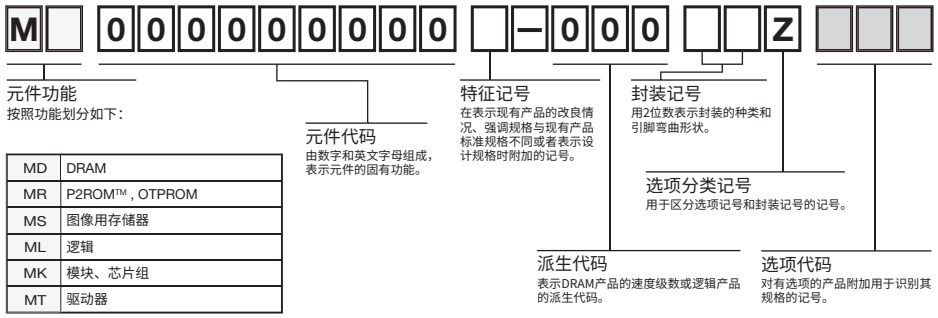
LAPIS Technology封装

品名构成说明 ····· P.124
SOP封装 ····· P.124
QFP封装 ····· P.125
QFN封装 ····· P.126
WSON封装 ····· P.128
BGA封装 ····· P.128
WL-CSP封装 ····· P.129

刊载各封装的代表性外形图。详细内容请咨询销售人员。

品名构成说明

半导体集成电路产品的名称是以“M”开头，并按照下述标准进行命名。



MD	DRAM
MR	P2ROM™ , OTPROM
MS	图像用存储器
ML	逻辑
MK	模块、芯片组
MT	驱动器

以往产品的标注方式如下所示。
・不标注封装形状。

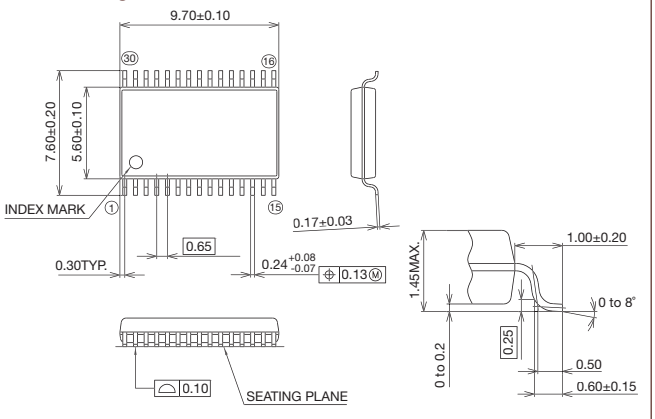


A	Analog	L	双极性逻辑
C	Bi-CMOS, 多芯片产品	M	MOS

SOP封装

(单位 : mm)

SSOP Package



(P-) SSOP30-56-0.65-TK-MC

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
SSOP Package Pin Pitch: 1mm	SSOP32-430-1.00-XXX	32	12.0	15.95	2.50	1,280	1,000
SSOP Package Pin Pitch: 0.65mm	(P-) SSOP16-0225-0.65-XXX	16	6.4	5.0	1.15	4,760	2,500
	(P-) SSOP30-56-0.65-XXX	30	7.6	9.7	1.45	2,000	2,000
		30	7.6	9.7	1.85	2,000	2,000
TSSOP Package Pin Pitch: 0.65mm	(P-) TSSOP20-0225-0.65-XXX	20	6.4	6.5	1.10	4,160	2,000
VSSOP Package Pin Pitch: 0.65mm	P-VSSOP8-0150-0.65-XXX	8	4.0	2.9	0.90	–	3,000

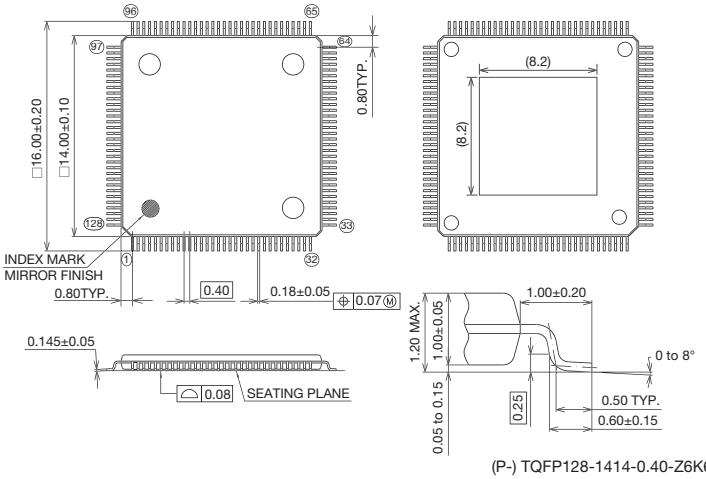
注1: 尺寸详图请确认LAPIS Technology官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFP封装

(单位 : mm)

TQFP Package



(P-) TQFP128-1414-0.40-Z6K6

QFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
QFP Package Pin Pitch: 0.8mm	QFP44-P-910-0.80-XXX	44	13.5	14.5	2.25	1,440	1,000
	(P-) QFP64-1414-0.80-XXX	64	17.2	17.2	2.80	840	–
	(P-) QFP80-1420-0.80-XXX	80	19.0	25.0	2.50	600	–
QFP Package Pin Pitch: 0.65mm	(P-) QFP56-910-0.65-XXX	56	13.5	14.5	2.25	1,400	1,000
	(P-) QFP80-1414-0.65-XXX	80	17.2	17.2	3.05	840	–
	(P-) QFP100-1420-0.65-XXX	100	19.0	25.0	2.50	600	–

注1: 尺寸详图请确认LAPIS Technology官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

LQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
LQFP Package Pin Pitch: 0.8mm	(P-) LQFP32-0707-0.80-XXX	80	9.0	9.0	1.600	2,500	1,000
LQFP Package Pin Pitch: 0.50mm	(P-) LQFP144-2020-0.50-XXX	50	22.0	22.0	1.600	600	–

注1: 尺寸详图请确认LAPIS Technology官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

TQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.80mm	(P-) TQFP32-0707-0.80-XXX	32	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP44-1010-0.80-XXX	44	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.65mm	(P-) TQFP52-1010-0.65-XXX	52	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.5mm	(P-) TQFP48-0707-0.50-XXX	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP64-1010-0.50-XXX	64	12.0	12.0	1.20	1,600	1,000

注1: 尺寸详图请确认LAPIS Technology官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFP封装

(单位：mm)

TQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.5mm	(P-) TQFP80-1212-0.50-XXX	80	14.0	14.0	1.20	1,190	—
	(P-) TQFP100-1414-0.50-XXX	100	16.0	16.0	1.20	900	—
TQFP Package Pin Pitch: 0.40mm	(P-) TQFP80-1010-0.40-XXX	80	12.0	12.0	1.20	1,600	—
	(P-) TQFP120-1414-0.40-XXX	120	16.0	16.0	1.20	900	—
	(P-) TQFP128-1414-0.40-XXX	128	16.0	16.0	1.20	900	—

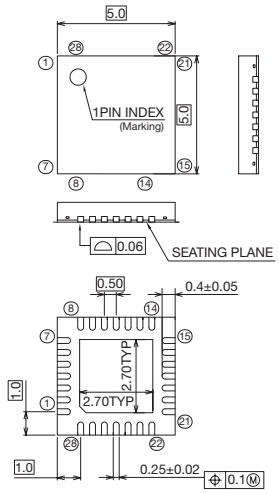
注1: 尺寸详图请确认LAPIS Technology官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

QFN封装

(单位：mm)

VQFN

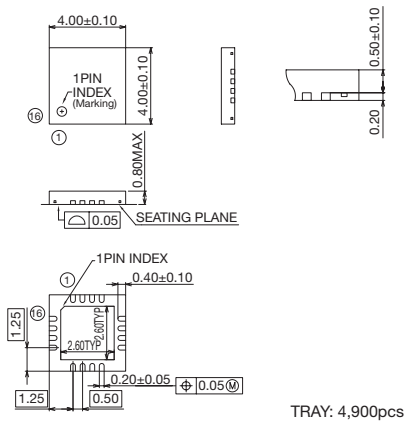
P-VQFN28-0505-0.50-U66



TRAY: 4,900pcs
T&R: 1,000pcs

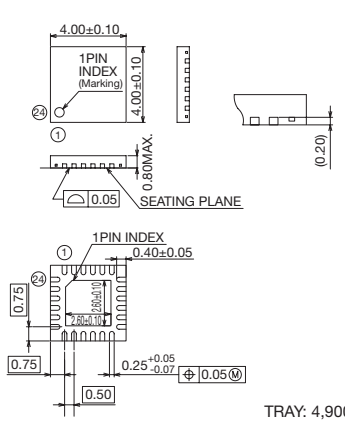
WQFN

P-WQFN16-0404-0.50-63



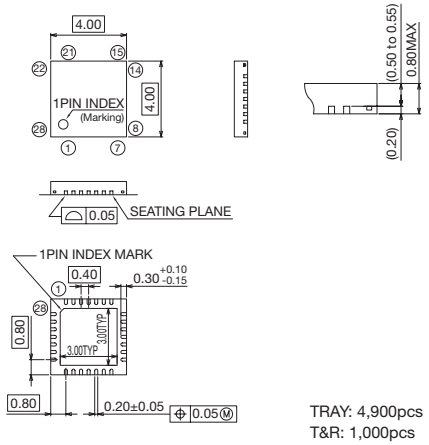
TRAY: 4,900pcs
T&R: 1,000pcs

P-WQFN24-0404-0.50-A63



TRAY: 4,900pcs
T&R: 1,000pcs

P-WQFN28-0404-0.40-63



TRAY: 4,900pcs
T&R: 1,000pcs

IC封装

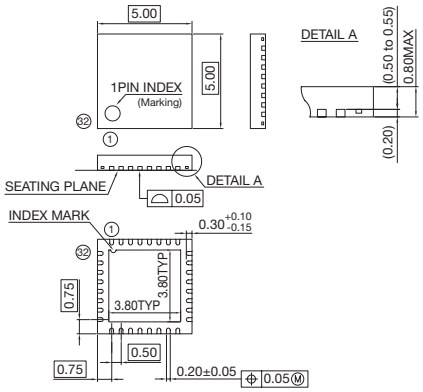
刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFN封装

(单位 : mm)

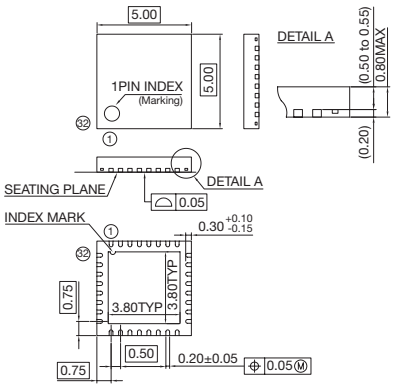
WQFN

P-WQFN32-0505-0.50-A63



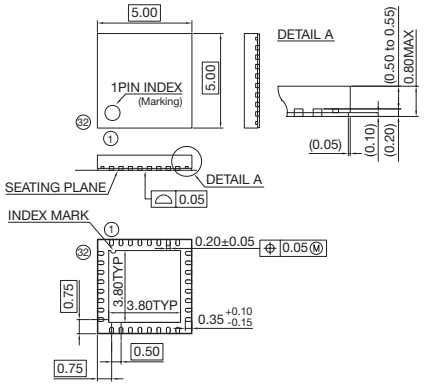
TRAY: 4,030pcs
T&R: 1,000pcs

P-WQFN32-0505-0.50-A63-MC



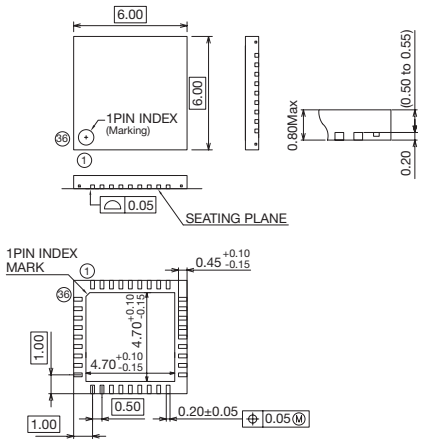
TRAY: 403pcs
T&R: 1,000pcs

P-WQFN32-0505-0.50-W66



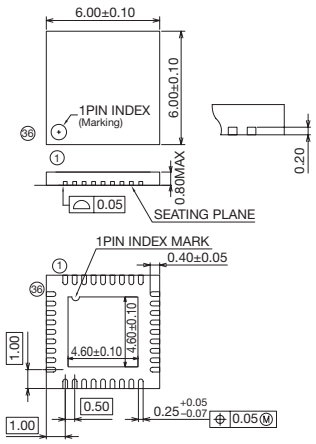
TRAY: 4,030pcs
T&R: 1,000pcs

WQFN36-0606-0.50-A63



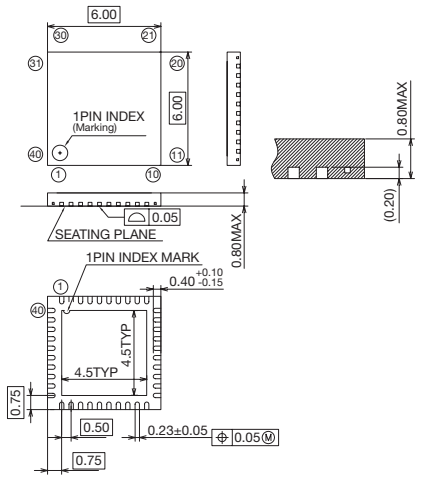
TRAY: 4,900pcs
T&R: 2,000pcs

P-WQFN36-0606-0.50-T63



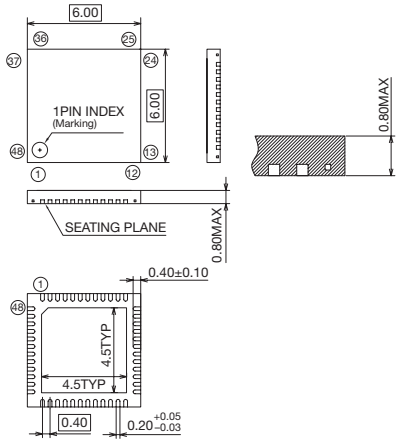
TRAY: 490pcs
T&R: 2,000pcs

P-WQFN40-0606-0.50-63



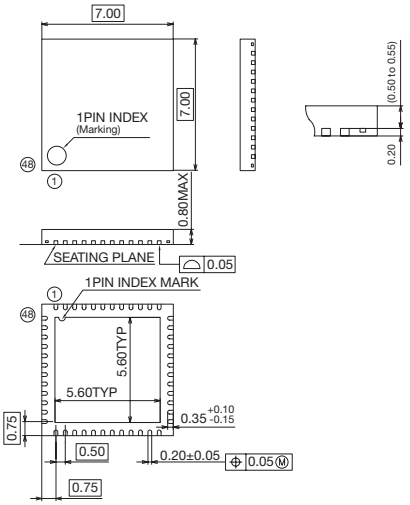
TRAY: 4,900pcs
T&R: 2,500pcs

P-WQFN48-0606-0.40-T63-MC



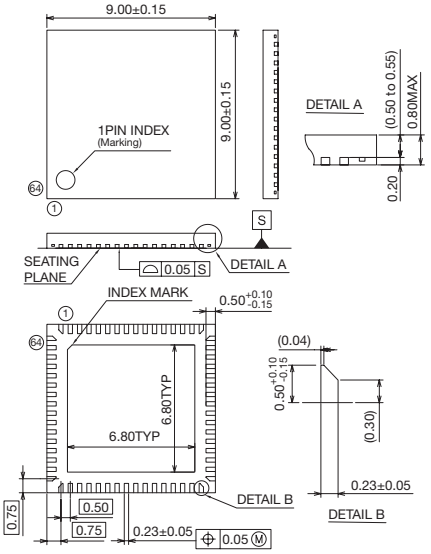
TRAY: —
T&R: 3,000pcs

P-WQFN48-0707-0.50-63



TRAY: 2,500pcs
T&R: 2,000pcs

P-WQFN64-0909-0.50-63



TRAY: 2,600pcs
T&R: 3,000pcs

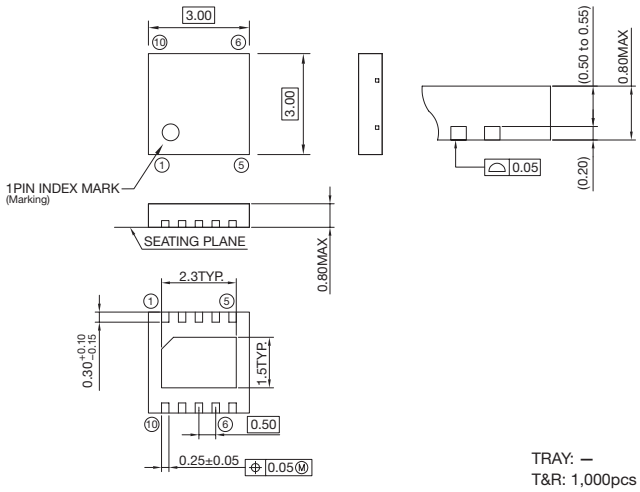
刊载各封装的代表性外形图。详细内容请咨询销售人员。

WSON封装

(单位 : mm)

WSON

P-WSON10-0303-0.50-63



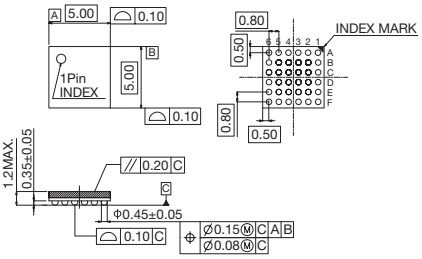
TRAY: —
T&R: 1,000pcs

BGA封装

(单位 : mm)

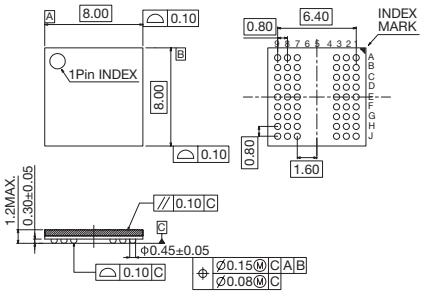
TFBGA

P-TFBGA36-0505-0.80-9



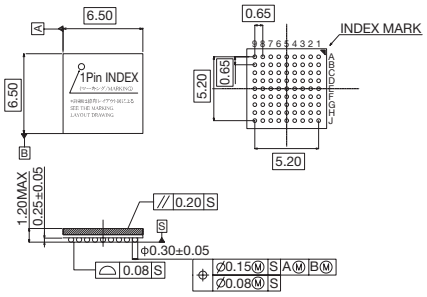
TRAY: 3,770pcs
T&R: —

P-TFBGA54-0808-0.80-9



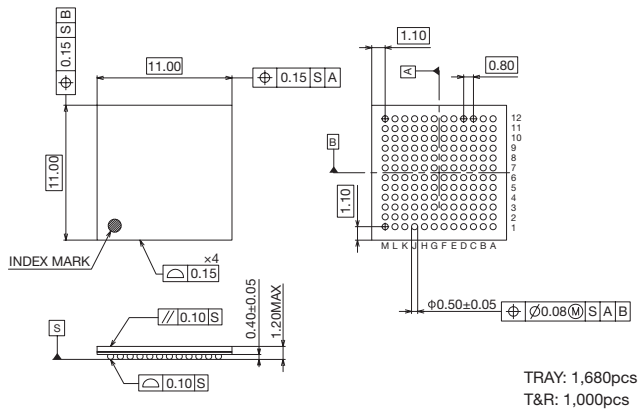
TRAY: 3,480pcs
T&R: 2,000pcs

P-TFBGA81-6.5×6.5-0.65-9-MC



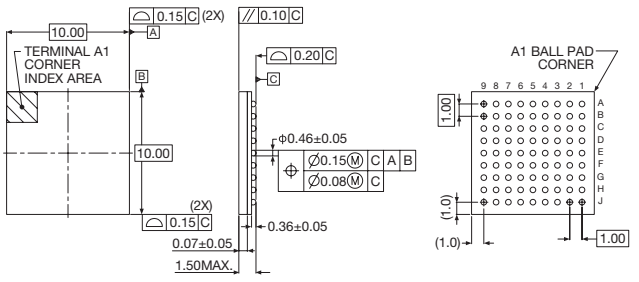
TRAY: —
T&R: 2,000pcs

P-TFBGA144-1111-0.80-1



TRAY: 1,680pcs
T&R: 1,000pcs

P-LBGA81-1010-1.00-1-MC



TRAY: 1,680pcs
T&R: —

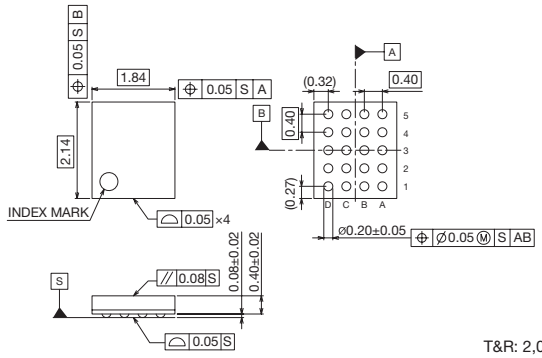
刊载各封装的代表性外形图。详细内容请咨询销售人员。

WL-CSP封装

(单位 : mm)

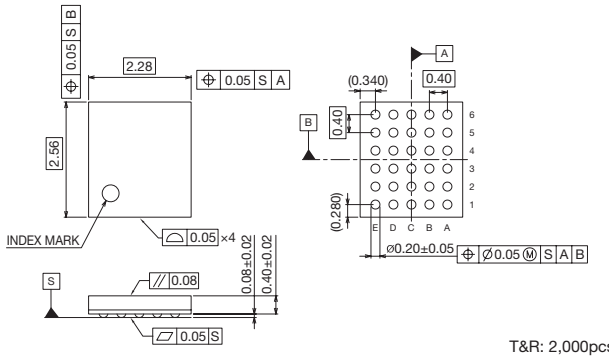
WCSP

S-UFLGA20-1.84×2.14-0.40-W



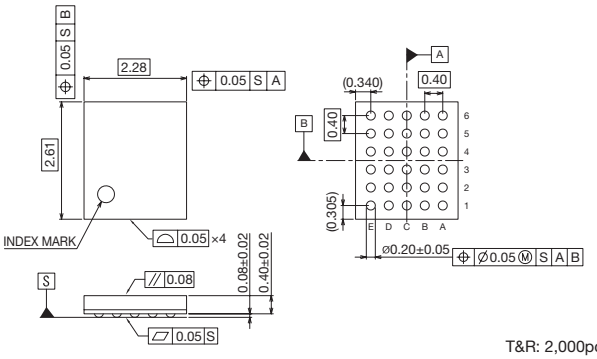
T&R: 2,000pcs

S-UFLGA30-2.28×2.56-0.40-W



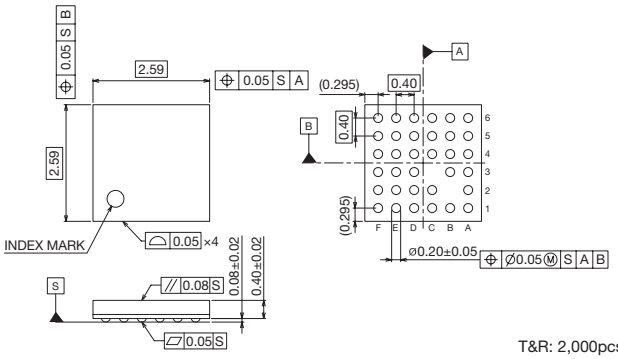
T&R: 2,000pcs

S-UFLGA30-2.28×2.61-0.40-W



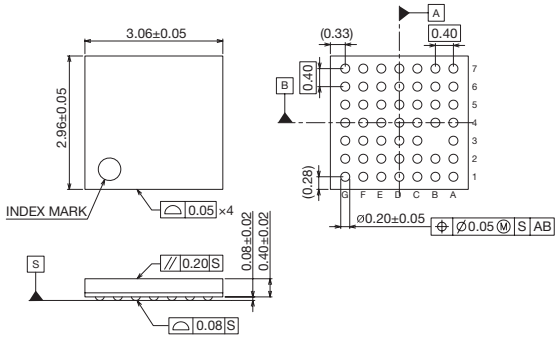
T&R: 2,000pcs

S-UFLGA34-2.59×2.59-0.40-W



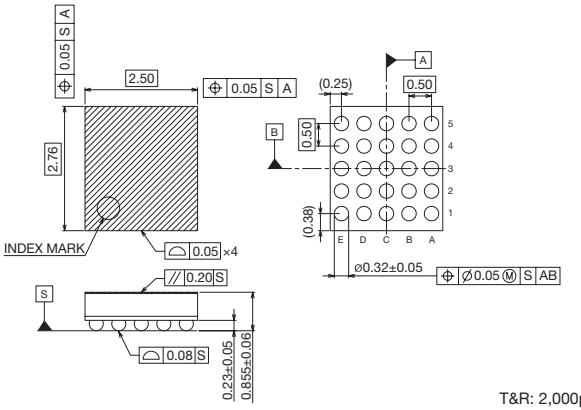
T&R: 2,000pcs

S-UFLGA48-3.06×2.96-0.40-W



T&R: 2,000pcs

S-VFBGA25-2.76×2.50-0.50-W

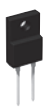
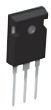


T&R: 2,000pcs

SiC肖特基势垒二极管
SiC肖特基势垒二极管 P.130

SiC肖特基势垒二极管

●SiC肖特基势垒二极管一览表

V_{RM} (V)	I_F (A)	Leaded type								Surface Mounted type	
											
		TO-220AC (TO-220ACP)		TO-220ACG		TO-220FM		TO-247 (TO-247N)		TO-263AB (LPTL)	
650	2	SCS302AH	21							SCS302AJ	13
	4	SCS304AH	22			SCS304AM	29			SCS304AJ	14
	6	SCS306AH	23	SCS206AG	42	SCS306AM	30			SCS206AJ SCS206AJHR SCS306AJ	1 7 15
	8	SCS308AH	24	SCS208AG	43	SCS308AM	31			SCS208AJ SCS208AJHR SCS308AJ	2 8 16
	10	SCS310AH	25	SCS210AG	44	SCS310AM	32			SCS210AJ SCS210AJHR SCS310AJ	3 9 17
	12	SCS312AH	26	SCS212AG	45	SCS312AM	33			SCS212AJ SCS212AJHR SCS312AJ	4 10 18
	15	SCS315AH	27	SCS215AG	46	SCS315AM	34			SCS215AJ SCS215AJHR SCS315AJ	5 11 19
	20	SCS320AH	28	SCS220AG	47	SCS320AM	35	SCS220AE2 SCS220AE2HR	36 39	SCS220AJ SCS220AJHR SCS320AJ	6 12 20
	30							SCS230AE2 SCS230AE2HR	37 40		
	40							SCS240AE2 SCS240AE2HR	38 41		
1,200	5			SCS205KG	56						
	10			SCS210KG	57			SCS210KE2 SCS210KE2HR	48 52		
	15			SCS215KG	58						
	20			SCS220KG	59			SCS220KE2 SCS220KE2HR	49 53		
	30							SCS230KE2 SCS230KE2HR	50 54		
	40							SCS240KE2 SCS240KE2HR	51 55		

注：封装采用JEDEC表示。( )内表示ROHM封装。

SiC肖特基势垒二极管

SiC肖特基势垒二极管

No.	Part No.	Absolute Maximum Ratings (T_j=25°C)				Electrical Characteristics (T_j=25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
		V_{RM} (V)	V_R (V)	I_F (A)	I_{FSM} (A) 10ms	V_F (V) Typ	I_F (A)	I_R (μA) Max	V_R (V)			
1	SCS206AJ	650	650	6	23	1.35	6	120	600	TO-263AB (LPTL)		–
2	SCS208AJ	650	650	8	30	1.35	8	160	600			–
3	SCS210AJ	650	650	10	38	1.35	10	200	600			–
4	SCS212AJ	650	650	12	43	1.35	12	240	600			–
5	SCS215AJ	650	650	15	52	1.35	15	300	600			–
6	SCS220AJ	650	650	20	68	1.35	20	400	600			–
7	SCS206AJHR	650	650	6	23	1.35	6	120	600			YES
8	SCS208AJHR	650	650	8	30	1.35	8	160	600			YES
9	SCS210AJHR	650	650	10	38	1.35	10	200	600			YES
10	SCS212AJHR	650	650	12	43	1.35	12	240	600			YES
11	SCS215AJHR	650	650	15	52	1.35	15	300	600			YES
12	SCS220AJHR	650	650	20	68	1.35	20	400	600			YES
13	SCS302AJ	650	650	2.15	19	1.35	2.15	10.8	650			–
14	SCS304AJ	650	650	4	27	1.35	4	20	650			–
15	SCS306AJ	650	650	6	47	1.35	6	30	650			–
16	SCS308AJ	650	650	8	67	1.35	8	40	650			–
17	SCS310AJ	650	650	10	82	1.35	10	50	650			–
18	SCS312AJ	650	650	12	96	1.35	12	60	650			–
19	SCS315AJ	650	650	15	112	1.35	15	75	650			–
20	SCS320AJ	650	650	20	123	1.35	20	100	650			–
21	SCS302AH	650	650	2.15	19	1.35	2	10.8	650	TO-220AC (TO-220ACP)		–
22	SCS304AH	650	650	4	27	1.35	4	20	650			–
23	SCS306AH	650	650	6	47	1.35	6	30	650			–
24	SCS308AH	650	650	8	67	1.35	8	40	650			–
25	SCS310AH	650	650	10	82	1.35	10	50	650			–
26	SCS312AH	650	650	12	96	1.35	12	60	650			–
27	SCS315AH	650	650	15	112	1.35	15	75	650			–
28	SCS320AH	650	650	20	123	1.35	20	100	650			–
29	SCS304AM	650	650	4	27	1.35	4	20	650	TO-220FM		–
30	SCS306AM	650	650	6	47	1.35	6	30	650			–
31	SCS308AM	650	650	8	67	1.35	8	40	650			–
32	SCS310AM	650	650	10	82	1.35	10	50	650			–
33	SCS312AM	650	650	12	96	1.35	12	60	650			–
34	SCS315AM	650	650	15	112	1.35	15	75	650			–
35	SCS320AM	650	650	20	123	1.35	20	100	650			–
36	SCS220AE2	650	650	10/20*1	38/76*1	1.35	10	200	600	TO-247 (TO-247N)		–
37	SCS230AE2	650	650	15/30*1	52/104*1	1.35	15	300	600			–
38	SCS240AE2	650	650	20/40*1	67/130*1	1.35	20	400	600			–
39	SCS220AE2HR	650	650	10/20*1	38/76*1	1.35	10	200	600			YES
40	SCS230AE2HR	650	650	15/30*1	52/100*1	1.35	15	300	600			YES
41	SCS240AE2HR	650	650	20/40*1	67/130*1	1.35	20	400	600			YES
42	SCS206AG	650	650	6	23	1.35	6	120	600	TO-220ACG		–
43	SCS208AG	650	650	8	30	1.35	8	160	600			–
44	SCS210AG	650	650	10	38	1.35	10	200	600			–
45	SCS212AG	650	650	12	43	1.35	12	240	600			–
46	SCS215AG	650	650	15	52	1.35	15	300	600			–
47	SCS220AG	650	650	20	68	1.35	20	400	600			–
48	SCS210KE2	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200	TO-247 (TO-247N)		–
49	SCS220KE2	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			–
50	SCS230KE2	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			–
51	SCS240KE2	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200			–
52	SCS210KE2HR	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200			YES
53	SCS220KE2HR	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			YES
54	SCS230KE2HR	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			YES
55	SCS240KE2HR	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200			YES
56	SCS205KG	1,200	1,200	5	23	1.4	5	100	1,200	TO-220ACG		–
57	SCS210KG	1,200	1,200	10	42	1.4	10	200	1,200			–
58	SCS215KG	1,200	1,200	15	62	1.4	15	300	1,200			–
59	SCS220KG	1,200	1,200	20	79	1.4	20	400	1,200			–

注：封装采用JEDEC表示。( )内表示ROHM封装。

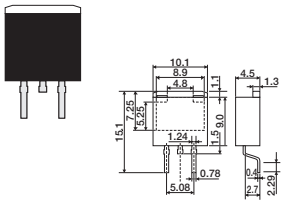
*1 (引脚/封装)

SiC肖特基势垒二极管

●尺寸 (单位：mm)

表面贴装型

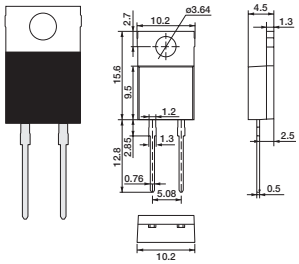
TO-263AB (LPTL)



Each lead has same dimensions

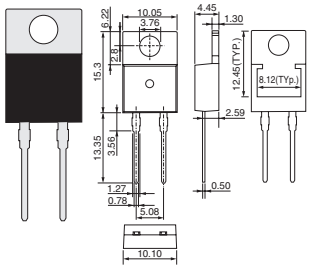
引脚插入型

TO-220AC (TO-220ACP)



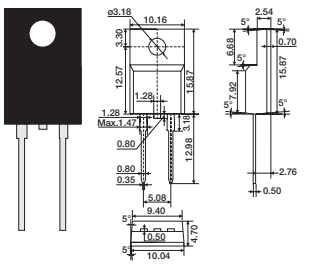
Each lead has same dimensions

TO-220ACG



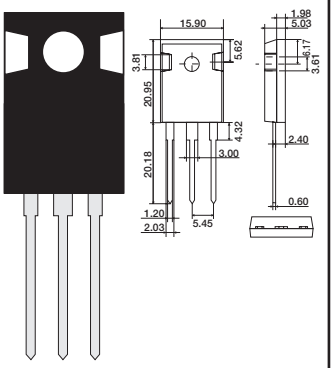
Each lead has same dimensions

TO-220FM



Each lead has same dimensions

TO-247 (TO-247N)



Each lead has same dimensions

注：封装采用JEDEC表示。( )内表示ROHM封装。

●品名构成说明

•关于SiC肖特基势垒二极管的品名(基本型号)

S	C	S	2	1	0	A	J	H	R
①		②	③	④		⑤	⑥	⑦	

① SiC分立元器件
② 肖特基势垒二极管
③ 世代
④ 电流〔A〕
例 05 → 5A
10 → 10A

⑤ 电压
例 A → 650V
K → 1,200V

⑥ 封装
例 J → TO-263AB (LPTL)
H → TO-220AC (TO-220ACP)
E → TO-247 (TO-247N)
E2 → TO-247 (Dual Chip)
G → TO-220ACG

⑦ 表示支持车载

●封装类型

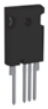
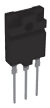
Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263AB (LPTL)	TLL	Embossed Tape	1,000
TO-220AC (TO-220ACP)	C9	Tube	50
TO-220ACG	C17	Tube	50
TO-220FM	C	Tube	50
TO-247 (TO-247N)	C11	Tube	30

注：封装采用JEDEC表示。( )内表示ROHM封装。

SiC MOSFET
SiC MOSFET P.133

SiC MOSFET

●SiC MOSFET一览表

V_{DSS} (V)	$R_{DS(on)}$ (mΩ)	Leaded type						Surface Mounted type	
		 TO-247 (TO-247N)		 TO-247-4L <C15>		 TO-3PFM		 TO-263-7L	
650	17	SCT3017AL SCT3017ALHR	10 11						
	22	SCT3022AL SCT3022ALHR	12 13						
	30	SCT3030AL SCT3030ALHR	14 15	SCT3030AR New SCT3030ARHR	32 33			SCT3030AW7	44
	60	SCT3060AL SCT3060ALHR	16 17	SCT3060AR New SCT3060ARHR	34 35			SCT3060AW7	45
	80	SCT3080AL SCT3080ALHR	18 19	SCT3080AR New SCT3080ARHR	36 37			SCT3080AW7	46
	120	SCT3120AL	20					SCT3120AW7	47
750	13	New SCT4013DE	52	New SCT4013DR	58			New SCT4013DW7	64
	26	New SCT4026DE New SCT4026DEHR	53 70	New SCT4026DR New SCT4026DRHR	59 74			New SCT4026DW7 New SCT4026DW7HR	65 78
	45	New SCT4045DE New SCT4045DEHR	54 71	New SCT4045DR New SCT4045DRHR	60 75			New SCT4045DW7 New SCT4045DW7HR	66 79
1,200	18	New SCT4018KE	55	New SCT4018KR	61			New SCT4018KW7	67
	22	SCT3022KL SCT3022KLHR	21 22						
	30	SCT3030KL SCT3030KLHR	23 24						
	36	New SCT4036KE New SCT4036KEHR	56 72	New SCT4036KR New SCT4036KRHR	62 76			New SCT4036KW7	68
	40	SCT3040KL SCT3040KLHR	25 26	SCT3040KR New SCT3040KRHR	38 39			SCT3040KW7	48
	62	New SCT4062KE New SCT4062KEHR	57 73	New SCT4062KR New SCT4062KRHR	63 77			New SCT4062KW7 New SCT4062KW7HR	69 80
	80	SCT2080KE SCT2080KEHR SCT3080KL SCT3080KLHR	1 2 27 28	SCT3080KR New SCT3080KRHR	40 41			SCT3080KW7	49
	105	SCT3105KL SCT3105KLHR	29 30	SCT3015KR New SCT3015KRHR	42 43			SCT3105KW7	50
	160	SCT2160KE SCT2160KEHR SCT3160KL	3 4 31					SCT3160KW7	51
	280	SCT2280KE SCT2280KEHR	5 6						
	450	SCT2450KE SCT2450KEHR	7 8						
1,700	1,150					SCT2H12NZ	9		
	750								

注：封装按照JEDEC标准进行标识。( )内表示ROHM封装，< >表示包装代码。

SiC MOSFET

No.	Part No.	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS\ (on)}$ Typ (mΩ)	Qg Typ (nC)		Package	Automotive Grade AEC-Q101
						V_{GS}=18V	V_{GS}=18V	Drive Voltage (V)		
第2代(平面型)										
1	SCT2080KE	N	1,200	40	262	80	106	18	TO-247 (TO-247N)	–
2	SCT2080KEHR	N		40	262	80	106	18		YES
3	SCT2160KE	N		22	165	160	62	18		–
4	SCT2160KEHR	N		22	165	160	62	18		YES
5	SCT2280KE	N		14	108	280	36	18		–
6	SCT2280KEHR	N		14	108	280	36	18		YES
7	SCT2450KE	N		10	85	450	27	18		–
8	SCT2450KEHR	N		10	85	450	27	18		YES
9	SCT2H12NZ	N	1,700	3.7	35	1,150	14	18	TO-3PFM	–
第3代(沟槽型)										
10	SCT3017AL	N	650	118	427	17	172	18	TO-247 (TO-247N)	–
11	SCT3017ALHR	N		118	427	17	172	18		YES
12	SCT3022AL	N		93	339	22	133	18		–
13	SCT3022ALHR	N		93	339	22	133	18		YES
14	SCT3030AL	N		70	262	30	104	18		–
15	SCT3030ALHR	N		70	262	30	104	18		YES
16	SCT3060AL	N		39	165	60	58	18		–
17	SCT3060ALHR	N		39	165	60	58	18		YES
18	SCT3080AL	N		30	134	80	48	18		–
19	SCT3080ALHR	N		30	134	80	48	18		YES
20	SCT3120AL	N		21	103	120	38	18		–
21	SCT3022KL	N	1,200	95	427	22	178	18		–
22	SCT3022KLHR	N		95	427	22	178	18		YES
23	SCT3030KL	N		72	339	30	131	18		–
24	SCT3030KLHR	N		72	339	30	131	18		YES
25	SCT3040KL	N		55	262	40	107	18		–
26	SCT3040KLHR	N		55	262	40	107	18		YES
27	SCT3080KL	N		31	165	80	60	18		–
28	SCT3080KLHR	N		31	165	80	60	18		YES
29	SCT3105KL	N		24	134	105	51	18		–
30	SCT3105KLHR	N		24	134	105	51	18		YES
31	SCT3160KL	N		17	103	160	42	18		–
32	SCT3030AR	N	650	70	262	30	104	18	TO-247-4L <C15>	–
33	New SCT3030ARHR	N		70	262	30	104	18		YES
34	SCT3060AR	N		39	165	60	58	18		–
35	New SCT3060ARHR	N		39	165	60	58	18		YES
36	SCT3080AR	N		30	134	80	48	18		–
37	New SCT3080ARHR	N		30	134	80	48	18		YES
38	SCT3040KR	N	1,200	55	262	40	107	18		–
39	New SCT3040KRHR	N		55	262	40	107	18		YES
40	SCT3080KR	N		31	165	80	60	18		–
41	New SCT3080KRHR	N		31	165	80	60	18		YES
42	SCT3105KR	N		24	134	105	51	18		–
43	New SCT3105KRHR	N		24	134	105	51	18		YES
44	SCT3030AW7	N	650	70	267	30	104	18	TO-263-7L	–
45	SCT3060AW7	N		38	159	60	58	18		–
46	SCT3080AW7	N		29	125	80	48	18		–
47	SCT3120AW7	N		21	100	120	38	18		–
48	SCT3040KW7	N	1,200	56	267	40	107	18		–
49	SCT3080KW7	N		30	159	80	60	18		–
50	SCT3105KW7	N		23	125	105	51	18		–
51	SCT3160KW7	N		17	100	160	42	18		–

注：封装按照JEDEC标准进行标识。( )内表示ROHM封装，< >表示包装代码。

第4代(沟槽型)

No.	Part No.	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ Typ (mΩ)	Qg Typ (nC)		Package	Automotive Grade AEC-Q101
						V_{GS}=18V	V_{GS}=18V	Drive Voltage (V)		
52	New SCT4013DE	N	750	105	312	13	170	15 to 18	TO-247 (TO-247N)	—
53	New SCT4026DE	N		56	176	26	94	15 to 18		—
54	New SCT4045DE	N		34	115	45	63	15 to 18		—
55	New SCT4018KE	N	1,200	81	312	18	170	15 to 18		—
56	New SCT4036KE	N		43	176	36	91	15 to 18		—
57	New SCT4062KE	N		26	115	62	64	15 to 18		—
58	New SCT4013DR	N	750	105	312	13	170	15 to 18	TO-247-4L <C15>	—
59	New SCT4026DR	N		56	176	26	94	15 to 18		—
60	New SCT4045DR	N		34	115	45	63	15 to 18		—
61	New SCT4018KR	N	1,200	81	312	18	170	15 to 18		—
62	New SCT4036KR	N		43	176	36	91	15 to 18		—
63	New SCT4062KR	N		26	115	62	64	15 to 18		—
64	New SCT4013DW7	N	750	98	267	13	170	15 to 18	TO-263-7L	—
65	New SCT4026DW7	N		51	150	26	94	15 to 18		—
66	New SCT4045DW7	N		31	93	45	63	15 to 18		—
67	New SCT4018KW7	N	1,200	75	267	18	170	15 to 18		—
68	New SCT4036KW7	N		40	150	36	91	15 to 18		—
69	New SCT4062KW7	N		24	93	62	64	15 to 18		—
70	New SCT4026DEHR	N	750	56	176	26	94	15 to 18	TO-247 (TO-247N)	YES
71	New SCT4045DEHR	N		34	115	45	63	15 to 18		YES
72	New SCT4036KEHR	N	1,200	43	176	36	91	15 to 18		YES
73	New SCT4062KEHR	N		26	115	62	64	15 to 18		YES
74	New SCT4026DRHR	N	750	56	176	26	94	15 to 18	TO-247-4L <C15>	YES
75	New SCT4045DRHR	N		34	115	45	63	15 to 18		YES
76	New SCT4036KRHR	N	1,200	43	176	36	91	15 to 18		YES
77	New SCT4062KRHR	N		26	115	62	64	15 to 18		YES
78	New SCT4026DW7HR	N	750	51	150	26	94	15 to 18	TO-263-7L	YES
79	New SCT4045DW7HR	N		31	93	45	63	15 to 18		YES
80	New SCT4062KW7HR	N	1,200	24	93	62	64	15 to 18		YES

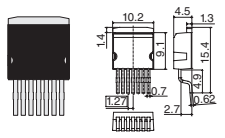
注：封装按照JEDEC标准进行标识。( )内表示ROHM封装，< >表示包装代码。

SiC MOSFET

●尺寸 (单位：mm)

表面贴装型

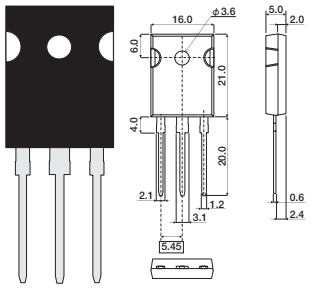
TO-263-7L



Each lead has same dimensions

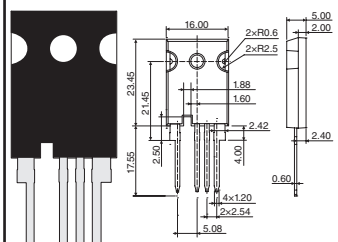
引脚插入型

TO-247 (TO-247N)



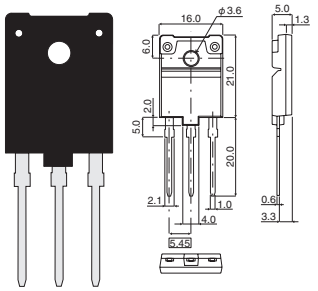
Each lead has same dimensions

TO-247-4L <C15>



Each lead has same dimensions

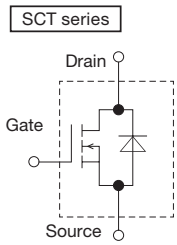
TO-3PFM



Each lead has same dimensions

注：封装按照JEDEC标准进行标识。( )内表示ROHM封装，< >表示包装代码。

●内部电路图



●品名构成说明

•关于MOSFET的品名(基本型号)

S	C	T	3	0	3	0	A	L	H	R
		①	②	③	④		⑤	⑥	⑦	

① SiC分立元器件
② T → MOSFET
③ 世代
④ ON-resistance[mΩ]
080=80mΩ
H12=1.2Ω
⑤ 电压
A → 650V
D → 750V
K → 1,200V
N → 1,700V
⑥ 封装
E, L → TO-247 (TO-247N)
Z → TO-3PFM
R → TO-247-4L
W7 → TO-263-7L
⑦ 表示支持车载

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263-7L	TL	Embossed Tape	1,000
TO-247 (TO-247N)	C11	Tube	30
TO-247-4L	C15	Tube	30
TO-3PFM	C11	Tube	30

注：封装按照JEDEC标准进行标识。( )内表示ROHM封装。

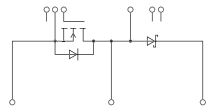
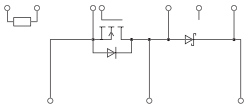
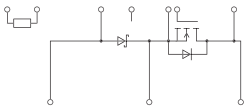
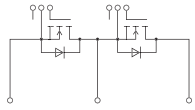
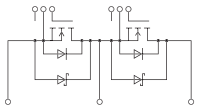
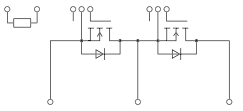
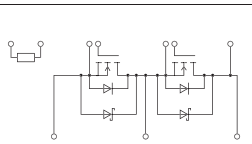
“全SiC”功率模块
“全SiC”功率模块 P.137

“全SiC”功率模块

●“全SiC”功率模块一览表

V_{DSS} (V)	$R_{DS(on)}$ (mΩ)	Case type C type		Case type E type		Case type G type	
1,200	34	BSM080D12P2C008	9				
	20	BSM120D12P2C005 BSM120C12P2C201	10 1				
	12.8	BSM180D12P2C101	8				
	12.2			BSM180C12P2E202 BSM180D12P2E002	3 15		
	10	BSM180D12P3C007 BSM180C12P3C202	11 2				
	7.3			BSM300D12P2E001	16		
	6.3			BSM300C12P3E201 BSM300C12P3E301	4 7		
	5.75					BSM400D12P2G003	18
	5.55			BSM300D12P3E005	17		
	4.5					BSM400D12P3G002 BSM400C12P3G202	19 5
	4					New BSM300D12P4G101	12
	3.3					New BSM450D12P4G102	13
	3					BSM600D12P3G001 BSM600C12P3G201	20 6
	2.7					New BSM600D12P4G103	14
1,700	8			BSM250D17P2E004	21		

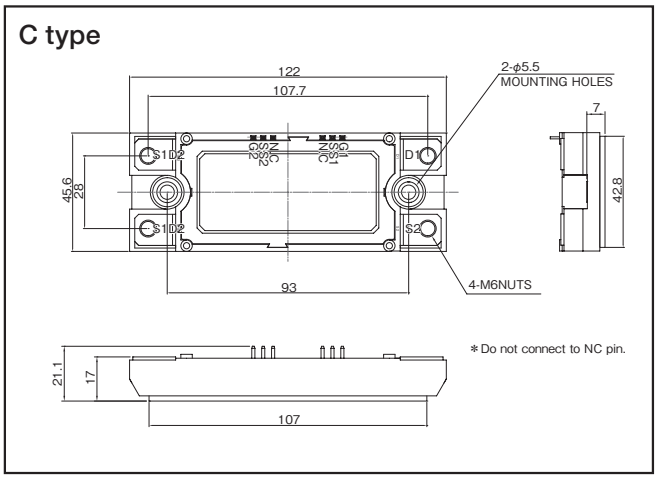
“全SiC”功率模块

No.	Part No.	Absolute Maximum Ratings (T_j=25°C) V_{DSS} (V)	$R_{DS(on)}$ (mΩ)	I_D (A)	T_j (°C)	Tstg (°C)	Visol (V) AC 1min	Package	Internal Circuit
升降压斩波型									
1	BSM120C12P2C201	1,200	20	120	−40 to +175	−40 to +125	2,500	C type	
2	BSM180C12P3C202		10	180	−40 to +175	−40 to +125	2,500		
3	BSM180C12P2E202		12.2	180	−40 to +175	−40 to +125	2,500	E type	
4	BSM300C12P3E201		6.3	300	−40 to +175	−40 to +125	2,500		
5	BSM400C12P3G202		4.5	400	−40 to +175	−40 to +125	2,500	G type	
6	BSM600C12P3G201		3	600	−40 to +175	−40 to +125	2,500		
7	BSM300C12P3E301		6.3	300	−40 to +175	−40 to +125	2,500	E type	
半桥型									
8	BSM180D12P2C101	1,200	12.8	180	−40 to +175	−40 to +125	2,500	C type	
9	BSM080D12P2C008		34	80	−40 to +175	−40 to +125	2,500		
10	BSM120D12P2C005		20	120	−40 to +175	−40 to +125	2,500		
11	BSM180D12P3C007		10	180	−40 to +175	−40 to +125	2,500		
12	New BSM300D12P4G101		4	300	−40 to +175	−40 to +125	2,500	G type	
13	New BSM450D12P4G102		3.3	450	−40 to +175	−40 to +125	2,500		
14	New BSM600D12P4G103		2.7	600	−40 to +175	−40 to +125	2,500		
15	BSM180D12P2E002		12.2	180	−40 to +175	−40 to +125	2,500	E type	
16	BSM300D12P2E001		7.3	300	−40 to +175	−40 to +125	2,500		
17	BSM300D12P3E005		5.55	300	−40 to +175	−40 to +125	2,500		
18	BSM400D12P2G003		5.75	400	−40 to +175	−40 to +125	2,500	G type	
19	BSM400D12P3G002		4.5	400	−40 to +175	−40 to +125	2,500		
20	BSM600D12P3G001		3	600	−40 to +175	−40 to +125	2,500		
21	BSM250D17P2E004	1,700	8	250	−40 to +175	−40 to +125	3,400	E type	

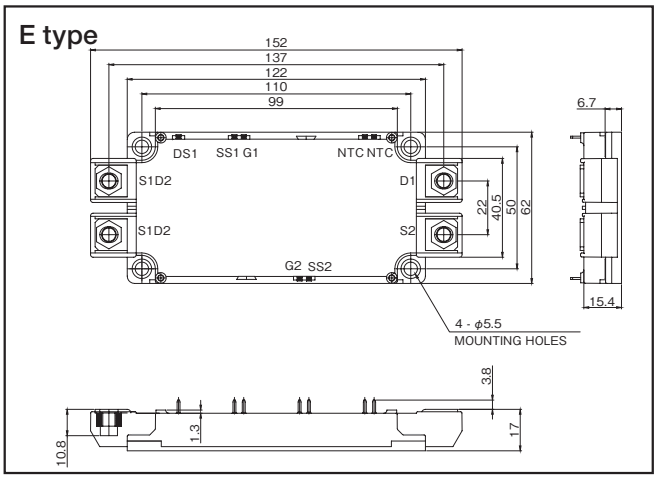
“全SiC”功率模块

●尺寸 (单位：mm)

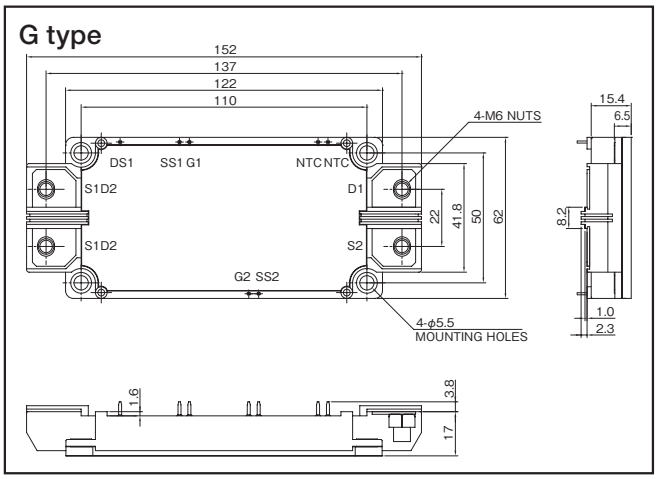
C type



E type



G type



●品名构成说明

B	S	M	1	2	0	D	1	2	P	2	C	0	0	5
①			②			③	④		⑤		⑥		⑦	

① SiC功率模块
② 额定电流
③ C → 含1个电路
D → 含2个电路
④ 耐压
例 12 → 1,200V
⑤ 器件类型
P2 使用第二代SiC MOSFET
P3 使用第三代SiC MOSFET
⑥ 规格类型
⑦ 追加型号

IGBT | Field Stop Trench IGBT P.139 | Ignition IGBT P.143

Field Stop Trench IGBT

●Field Stop Trench IGBT一览表

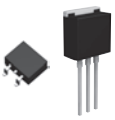
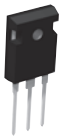
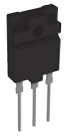
标准产品

Series	V_{CES} (V)	I_C (A)	Package							
										
			TO-247N/TO-247GE				TO-3PFM			
			IGBT Single		Built-in Diode*		IGBT Single		Built-in FRD	
RGTH series (High speed switching)	650	20	RGTH40TS65	13	RGTH40TS65D	46	RGTH40TK65	22	RGTH40TK65D	63
		25	RGTH50TS65	14	RGTH50TS65D	47	RGTH50TK65	23	RGTH50TK65D	64
		30	RGTH60TS65	15	RGTH60TS65D	48	RGTH60TK65	24	RGTH60TK65D	65
		40	RGTH80TS65	16	RGTH80TS65D	49	RGTH80TK65	25	RGTH80TK65D	66
		50	RGTH00TS65	17	RGTH00TS65D	50	RGTH00TK65	26	RGTH00TK65D	67
RGWS series (High speed SW, cost effective)	650	30	New RGWS60TS65	18	New RGWS60TS65D	51				
		40	New RGWS80TS65	19	New RGWS80TS65D	52				
		50	New RGWS00TS65	20	New RGWS00TS65D	53				
		60	New RGWSX2TS65	21	New RGWSX2TS65D	54				
RGW series (High speed fast switching)	650	20	RGW40TS65	5	RGW40TS65D	55	RGW40TK65	27	RGW40TK65D	68
		25	RGW50TS65	6	RGW50TS65D	56	RGW50TK65	28	RGW50TK65D	69
		30	RGW60TS65HR RGW60TS65	1 7	RGW60TS65CHR RGW60TS65DHR RGW60TS65EHR RGW60TS65D	34 37 38 57	RGW60TK65	29	RGW60TK65D	70
		40	RGW80TS65HR RGW80TS65	2 8	RGW80TS65CHR RGW80TS65DHR RGW80TS65EHR RGW80TS65D	35 39 40 58	RGW80TK65	30	RGW80TK65D RGW80TK65E	71 72
		50	RGW00TS65HR RGW00TS65	3 9	RGW00TS65CHR RGW00TS65DHR RGW00TS65EHR RGW00TS65D	36 41 42 59	RGW00TK65	31	RGW00TK65D	73
		75	RGWX5TS65HR RGWX5TS65	4 10	RGWX5TS65DHR RGWX5TS65EHR RGWX5TS65D	43 44 60				
RGCL series (Low $V_{CE\ (sat)}$)	600	30	RGCL60TS60	11	RGCL60TS60D	61	RGCL60TK60	32	RGCL60TK60D	74
		40	RGCL80TS60	12	RGCL80TS60D	62	RGCL80TK60	33	RGCL80TK60D	75
RGC series (RC-IGBT)	1,800	40			RGC80TSX8R	45				

注1：封装采用JEDEC表示。
注2：*RGW60TS65CHR、RGW80TS65CHR、RGW00TS65CHR内置SiC肖特基势垒二极管，其他型号内置快速恢复二极管。

Field Stop Trench IGBT

●Field Stop Trench IGBT一览表
短路耐量保证产品

Series	V_{CES} (V)	I_C (A)	Package																	
																				
			TO-252		TO-263S (LPDS)/ TO-262		TO-263L (LPDL)				TO-220NFM		TO-247N/TO-247GE				TO-3PFM			
			Built-in FRD		Built-in FRD		IGBT Single		Built-in FRD		Built-in FRD		IGBT Single		Built-in FRD		IGBT Single		Built-in FRD	
RGTV series (tsc 2µsec Min)	650	30											RGTV60TS65	87	RGTV60TS65D	128	RGTV60TK65	92	RGTV60TK65D	138
		40											RGTV80TS65	88	RGTV80TS65D	129	RGTV80TK65	93	RGTV80TK65D	139
		50											RGTV00TS65	89	RGTV00TS65D	130	RGTV00TK65	94	RGTV00TK65D	140
		60											RGTVX2TS65	90	RGTVX2TS65D	131				
		80											RGTVX6TS65	91	RGTVX6TS65D	132				
RGT series (tsc 5µsec Min)	650	4	RGT8BM65D	95	RGT8NS65D	97			RGT8NL65D	103	RGT8TM65D	109								
		8	RGT16BM65D	96	RGT16NS65D	98			RGT16NL65D	104	RGT16TM65D	110								
		10			RGT20NS65D	99	RGT20NL65	76	RGT20NL65D	105	RGT20TM65D	111								
		15			RGT30NS65D	100			RGT30NL65D	106	RGT30TM65D	112								
		20			RGT40NS65D	101			RGT40NL65D	107	RGT40TM65D	113			RGT40TS65D	133				
		25			RGT50NS65D	102			RGT50NL65D	108	RGT50TM65D	114			RGT50TS65D	134				
		30													RGT60TS65D	135				
		40													RGT80TS65D	136				
		50													RGT00TS65D	137				
RGS series (tsc 8µsec Min)	650	30											RGS60TS65HR	77	RGS60TS65DHR	115				
		40											RGS80TS65HR	78	RGS80TS65DHR	116				
		50											RGS00TS65HR	79	RGS00TS65DHR RGS00TS65EHR	117 118				
		75											RGSX5TS65HR	80	RGSX5TS65DHR RGSX5TS65EHR RGSX5TS65E	119 120 121				
RGS series (tsc 10µsec Min)	1,200	15											RGS30TSX2HR RGS30TSX2	81 82	RGS30TSX2DHR RGS30TSX2D	122 123				
		25											RGS50TSX2HR RGS50TSX2	83 84	RGS50TSX2DHR RGS50TSX2D	124 125				
		40											RGS80TSX2HR RGS80TSX2	85 86	RGS80TSX2DHR RGS80TSX2D	126 127				

注：封装采用JEDEC表示。( )内表示ROHM封装。

Field Stop Trench IGBT

标准产品

Field Stop Trench IGBT

IGBT单路

No.	Part No.	V_{CES} (V)	I_C (A) Tc=25°C	I_C (A) Tc=100°C	P_D (W)	$V_{CE(sat)}$ Typ (V)	$V_{CE(sat)}$ I_C (A)	tsc Min (μsec)	$I_{F(Diode)}$ (A) Tc=25°C	$I_{F(Diode)}$ (A) Tc=100°C	$V_{F(Diode)}$ Typ (V)	$V_{F(Diode)}$ I_F (A)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
1	RGW60TS65HR	650	60	30	178	1.5	30	–	–	–	–	–	TO-247N		YES
2	RGW80TS65HR	650	78	40	214	1.5	40	–	–	–	–	–			YES
3	RGW00TS65HR	650	96	50	254	1.5	50	–	–	–	–	–			YES
4	RGWX5TS65HR	650	132	75	348	1.5	75	–	–	–	–	–			YES
5	RGW40TS65	650	40	20	136	1.5	20	–	–	–	–	–	TO-247GE		–
6	RGW50TS65	650	50	25	156	1.5	25	–	–	–	–	–			–
7	RGW60TS65	650	60	30	178	1.5	30	–	–	–	–	–			–
8	RGW80TS65	650	78	40	214	1.5	40	–	–	–	–	–			–
9	RGW00TS65	650	96	50	254	1.5	50	–	–	–	–	–			–
10	RGWX5TS65	650	132	75	348	1.5	75	–	–	–	–	–			–
11	RGCL60TS60	600	48	30	111	1.4	30	–	–	–	–	–			–
12	RGCL80TS60	600	65	40	148	1.4	40	–	–	–	–	–			–
13	RGTH40TS65	650	40	20	144	1.6	20	–	–	–	–	–			–
14	RGTH50TS65	650	50	25	174	1.6	25	–	–	–	–	–			–
15	RGTH60TS65	650	58	30	194	1.6	30	–	–	–	–	–			–
16	RGTH80TS65	650	70	40	234	1.6	40	–	–	–	–	–			–
17	RGTH00TS65	650	85	50	277	1.6	50	–	–	–	–	–			–
18	New RGWS60TS65	650	51	32	156	1.6	30	–	–	–	–	–			–
19	New RGWS80TS65	650	71	43	202	1.6	40	–	–	–	–	–			–
20	New RGWS00TS65	650	88	54	245	1.6	50	–	–	–	–	–			–
21	New RGWSX2TS65	650	104	64	288	1.6	60	–	–	–	–	–			–
22	RGTH40TK65	650	23	14	56	1.6	20	–	–	–	–	–	TO-3PFM		–
23	RGTH50TK65	650	26	16	59	1.6	25	–	–	–	–	–			–
24	RGTH60TK65	650	28	17	61	1.6	30	–	–	–	–	–			–
25	RGTH80TK65	650	31	19	66	1.6	40	–	–	–	–	–			–
26	RGTH00TK65	650	35	21	72	1.6	50	–	–	–	–	–			–
27	RGW40TK65	650	27	16	61	1.5	20	–	–	–	–	–			–
28	RGW50TK65	650	30	18	67	1.5	25	–	–	–	–	–			–
29	RGW60TK65	650	33	20	72	1.5	30	–	–	–	–	–			–
30	RGW80TK65	650	39	23	81	1.5	40	–	–	–	–	–			–
31	RGW00TK65	650	45	26	89	1.5	50	–	–	–	–	–			–
32	RGCL60TK60	600	30	18	54	1.4	30	–	–	–	–	–			–
33	RGCL80TK60	600	35	21	57	1.4	40	–	–	–	–	–			–

内置SiC肖特基势垒二极管

No.	Part No.	V_{CES} (V)	I_C (A) Tc=25°C	I_C (A) Tc=100°C	P_D (W)	$V_{CE(sat)}$ Typ (V)	$V_{CE(sat)}$ I_C (A)	tsc Min (μsec)	$I_{F(Diode)}$ (A) Tc=25°C	$I_{F(Diode)}$ (A) Tc=100°C	$V_{F(Diode)}$ Typ (V)	$V_{F(Diode)}$ I_F (A)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
34	RGW60TS65CHR	650	64	39	178	1.5	30	–	39	25	1.35	20	TO-247N	*2	YES
35	RGW80TS65CHR	650	81	48	214	1.5	40	–	39	25	1.35	20			YES
36	RGW00TS65CHR	650	96	58	254	1.5	50	–	39	25	1.35	20			YES

快速恢复二极管内置

No.	Part No.	V_{CES} (V)	I_C (A) Tc=25°C	I_C (A) Tc=100°C	P_D (W)	$V_{CE(sat)}$ Typ (V)	$V_{CE(sat)}$ I_C (A)	tsc Min (μsec)	$I_{F(Diode)}$ (A) Tc=25°C	$I_{F(Diode)}$ (A) Tc=100°C	$V_{F(Diode)}$ Typ (V)	$V_{F(Diode)}$ I_F (A)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
37	RGW60TS65DHR	650	60	30	178	1.5	30	–	40	20	1.45	20	TO-247N		YES
38	RGW60TS65EHR	650	60	30	178	1.5	30	–	56	33	1.45	30			YES
39	RGW80TS65DHR	650	78	40	214	1.5	40	–	40	20	1.45	20			YES
40	RGW80TS65EHR	650	78	40	214	1.5	40	–	73	43	1.45	40			YES
41	RGW00TS65DHR	650	96	50	254	1.5	50	–	56	30	1.45	30			YES
42	RGW00TS65EHR	650	96	50	254	1.5	50	–	84	50	1.45	50			YES
43	RGWX5TS65DHR	650	132	75	348	1.5	75	–	73	43	1.45	40			YES
44	RGWX5TS65EHR	650	132	75	348	1.5	75	–	127	80	1.45	75			YES
45	RGC80TSX8R	1,800	80	40	535	2.2	40	–	80	40	1.80	40			–
46	RGTH40TS65D	650	40	20	144	1.6	20	–	35	20	1.45	20	TO-247GE		–
47	RGTH50TS65D	650	50	25	174	1.6	25	–	35	20	1.45	20			–
48	RGTH60TS65D	650	58	30	194	1.6	30	–	40	20	1.35	20			–
49	RGTH80TS65D	650	70	40	234	1.6	40	–	40	20	1.35	20			–
50	RGTH00TS65D	650	85	50	277	1.6	50	–	50	30	1.45	30			–
51	New RGWS60TS65D	650	51	32	156	1.6	30	–	23	13	1.45	10			–
52	New RGWS80TS65D	650	71	43	202	1.6	40	–	23	13	1.45	10			–
53	New RGWS00TS65D	650	88	54	245	1.6	50	–	23	13	1.45	10			–
54	New RGWSX2TS65D	650	104	64	288	1.6	60	–	23	13	1.45	10			–
55	RGW40TS65D	650	40	20	136	1.5	20	–	40	20	1.45	20			–
56	RGW50TS65D	650	50	25	156	1.5	25	–	40	20	1.45	20			–
57	RGW60TS65D	650	60	30	178	1.5	30	–	40	20	1.45	20			–
58	RGW80TS65D	650	78	40	214	1.5	40	–	40	20	1.45	20			–
59	RGW00TS65D	650	96	50	254	1.5	50	–	56	30	1.45	30			–
60	RGWX5TS65D	650	132	75	348	1.5	75	–	73	40	1.45	40			–
61	RGCL60TS60D	600	48	30	111	1.4	30	–	35	20	1.45	20			–
62	RGCL80TS60D	600	65	40	148	1.4	40	–	35	20	1.45	20			–
63	RGTH40TK65D	650	23	14	56	1.6	20	–	26	15	1.45	20	TO-3PFM		–
64	RGTH50TK65D	650	26	16	59	1.6	25	–	26	15	1.45	20			–
65	RGTH60TK65D	650	28	17	61	1.6	30	–	28	16	1.35	20			–
66	RGTH80TK65D	650	31	19	66	1.6	40	–	28	16	1.35	20			–
67	RGTH00TK65D	650	35	21	72	1.6	50	–	34	19	1.45	30			–
68	RGW40TK65D	650	27	16	61	1.5	20	–	27	16	1.45	20			–
69	RGW50TK65D	650	30	18	67	1.5	25	–	27	16	1.45	20			–
70	RGW60TK65D	650	33	20	72	1.5	30	–	27	16	1.45	20			–
71	RGW80TK65D	650	39	23	81	1.5	40	–	27	16	1.45	20			–
72	RGW80TK65E	650	39	23	81	1.5	40	–	46	26	1.45	50			–
73	RGW00TK65D	650	45	26	89	1.5	50	–	34	19	1.45	30			–
74	RGCL60TK60D	600	30	18	54	1.4	30	–	26	15	1.45	20			–
75	RGCL80TK60D	600	35	21	57	1.4	40	–	26	15	1.45	20			–

注：封装采用JEDEC表示。

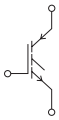
*1 快速恢复二极管内置
*2 内置SiC肖特基势垒二极管

Field Stop Trench IGBT

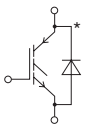
短路耐量保证产品

Field Stop Trench IGBT

IGBT单路

No.	Part No.	V_{CES} (V)	I_C (A)		P_D (W)	$V_{CE\ (sat)}$		tsc Min (μsec)	$I_{F\ (Diode)}$ (A)		$V_{F\ (Diode)}$		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C		Typ (V)	I_C (A)		Tc=25°C	Tc=100°C	Typ (V)	I_F (A)			
76	RGT20NL65	650	20	10	106	1.65	10	5	–	–	–	–	TO-263L (LPDL)		–
77	RGS60TS65HR	650	56	30	223	1.65	30	8	–	–	–	–	TO-247N		YES
78	RGS80TS65HR		73	40	272	1.65	40	8	–	–	–	–			YES
79	RGS00TS65HR		88	50	326	1.65	50	8	–	–	–	–			YES
80	RGSX5TS65HR		114	75	404	1.70	75	8	–	–	–	–			YES
81	RGS30TSX2HR	1,200	30	15	267	1.70	15	10	–	–	–	–			YES
82	RGS30TSX2		30	15	267	1.70	15	10	–	–	–	–			–
83	RGS50TSX2HR		50	25	395	1.70	25	10	–	–	–	–			YES
84	RGS50TSX2		50	25	395	1.70	25	10	–	–	–	–			–
85	RGS80TSX2HR		80	40	555	1.70	40	10	–	–	–	–			YES
86	RGS80TSX2		80	40	555	1.70	40	10	–	–	–	–			–
87	RGTV60TS65	650	60	30	194	1.50	30	2	–	–	–	–	TO-247GE		–
88	RGTV80TS65		78	40	234	1.50	40	2	–	–	–	–			–
89	RGTV00TS65		95	50	276	1.50	50	2	–	–	–	–			–
90	RGTVX2TS65		111	60	319	1.50	60	2	–	–	–	–			–
91	RGTVX6TS65		144	80	404	1.50	80	2	–	–	–	–			–
92	RGTV60TK65	650	33	20	76	1.50	30	2	–	–	–	–	TO-3PFM		–
93	RGTV80TK65		39	23	85	1.50	40	2	–	–	–	–			–
94	RGTV00TK65		45	26	94	1.50	50	2	–	–	–	–			–

内置SiC肖特基势垒二极管

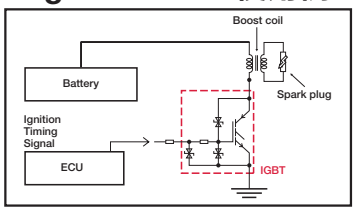
No.	Part No.	V_{CES} (V)	I_C (A)		P_D (W)	$V_{CE\ (sat)}$		tsc Min (μsec)	$I_{F\ (Diode)}$ (A)		$V_{F\ (Diode)}$		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C		Typ (V)	I_C (A)		Tc=25°C	Tc=100°C	Typ (V)	I_F (A)			
95	RGT8BM65D	650	8	4	62	1.65	4	5	7	4	1.45	4	TO-252		–
96	RGT16BM65D		16	8	94	1.65	8	5	16	8	1.40	8			–
97	RGT8NS65D	650	8	4	65	1.65	4	5	7	4	1.45	4	TO-263S (LPDS)/ TO-262		–
98	RGT16NS65D		16	8	94	1.65	8	5	16	8	1.40	8			–
99	RGT20NS65D		20	10	106	1.65	10	5	16	8	1.40	8			–
100	RGT30NS65D		30	15	133	1.65	15	5	26	15	1.50	15			–
101	RGT40NS65D		40	20	161	1.65	20	5	35	20	1.45	20			–
102	RGT50NS65D		48	25	194	1.65	25	5	35	20	1.45	20			–
103	RGT8NL65D	650	8	4	65	1.65	4	5	7	4	1.45	4	TO-263L (LPDL)		–
104	RGT16NL65D		16	8	94	1.65	8	5	16	8	1.40	8			–
105	RGT20NL65D		20	10	106	1.65	10	5	16	8	1.40	8			–
106	RGT30NL65D		30	15	133	1.65	15	5	26	15	1.50	15			–
107	RGT40NL65D		40	20	161	1.65	20	5	35	20	1.45	20			–
108	RGT50NL65D		48	25	194	1.65	25	5	35	20	1.45	20			–
109	RGT8TM65D	650	5	3	16	1.65	4	5	5	3	1.45	4	TO-220NFM		–
110	RGT16TM65D		9	5	22	1.65	8	5	13	7	1.40	8			–
111	RGT20TM65D		10	6	25	1.65	10	5	13	7	1.40	8			–
112	RGT30TM65D		14	8	32	1.65	15	5	17	9	1.50	15			–
113	RGT40TM65D		17	10	39	1.65	20	5	22	13	1.45	20			–
114	RGT50TM65D		21	13	47	1.65	25	5	22	13	1.45	20			–
115	RGS60TS65DHR	650	56	30	223	1.65	30	8	56	30	1.45	30	TO-247N		YES
116	RGS80TS65DHR		73	40	272	1.65	40	8	56	30	1.45	30			YES
117	RGS00TS65DHR		88	50	326	1.65	50	8	56	30	1.45	30			YES
118	RGS00TS65EHR		88	50	326	1.65	50	8	84	50	1.45	50			YES
119	RGSX5TS65DHR		114	75	404	1.70	75	8	84	50	1.45	50			YES
120	RGSX5TS65EHR		114	75	404	1.70	75	8	127	75	1.45	75			YES
121	RGSX5TS65E		114	75	404	1.70	75	8	127	75	1.45	75			–
122	RGS30TSX2DHR	1,200	30	15	267	1.70	15	10	30	15	1.65	15			YES
123	RGS30TSX2D		30	15	267	1.70	15	10	30	15	1.65	15			–
124	RGS50TSX2DHR		50	25	395	1.70	25	10	50	25	1.65	25			YES
125	RGS50TSX2D		50	25	395	1.70	25	10	50	25	1.65	25			–
126	RGS80TSX2DHR		80	40	555	1.70	40	10	80	40	1.65	40			YES
127	RGS80TSX2D		80	40	555	1.70	40	10	80	40	1.65	40			–
128	RGTV60TS65D	650	60	30	194	1.50	30	2	56	30	1.45	30	TO-247GE		–
129	RGTV80TS65D		78	40	234	1.50	40	2	73	40	1.45	40			–
130	RGTV00TS65D		95	50	276	1.50	50	2	84	50	1.45	50			–
131	RGTVX2TS65D		111	60	319	1.50	60	2	98	60	1.45	60			–
132	RGTVX6TS65D		144	80	404	1.50	80	2	127	80	1.45	80			–
133	RGT40TS65D		40	20	144	1.65	20	5	35	20	1.45	20			–
134	RGT50TS65D		48	25	174	1.65	25	5	35	20	1.45	20			–
135	RGT60TS65D		55	30	194	1.65	30	5	40	20	1.35	20			–
136	RGT80TS65D		70	40	234	1.65	40	5	40	20	1.35	20			–
137	RGT00TS65D		85	50	277	1.65	50	5	50	30	1.45	30			–
138	RGTV60TK65D	650	33	20	76	1.50	30	2	34	19	1.45	30	TO-3PFM		–
139	RGTV80TK65D		39	23	85	1.50	40	2	40	23	1.45	40			–
140	RGTV00TK65D		45	26	94	1.50	50	2	46	26	1.45	50			–

注：封装采用JEDEC表示。( )内表示ROHM封装。

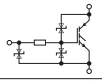
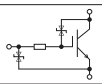
*快速恢复二极管内置

Ignition IGBT

●Ignition IGBT使用例



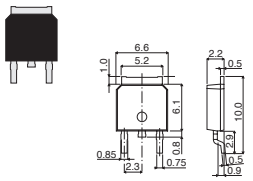
Ignition IGBT

Part No.	V_{CES} (V)	V_{GES} (V)	I_C (A)	P_D (W)	E_{as} (mJ)	$V_{CE\ (sat)}$ Typ (V)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
RGPZ10BM40FH	430±30	±10	20	107	250	1.6	TO-252		YES
☆RGPZ30BM56HR	560±30	±10	30	166	300	1.4	TO-252		YES
RGPR10BM40FH	430±30	±10	20	107	250	1.6	TO-252		YES
☆RGPR20BM36HR	360±30	±10	20	107	250	1.6	TO-252		YES
RGPR20NS43HR	430±30	±10	20	107	250	1.6	TO-263S (LPDS)		YES
RGPR20NL43HR	430±30	±10	20	107	250	1.6	TO-263L (LPDL)		YES
☆RGPR30BM56HR	560±30	±10	30	166	300	1.4	TO-252		YES
RGPR30BM40HR	400±30	±10	30	125	300	1.6	TO-252		YES
RGPR30NS40HR	400±30	±10	30	125	300	1.6	TO-263S (LPDS)		YES
RGPR50NL45HRB	450±30	±10	45	187	500	1.6	TO-263L (LPDL)		YES

注：封装采用JEDEC表示。( )内表示ROHM封装。　　☆: 开发中

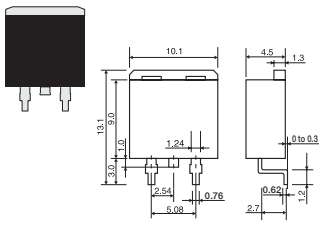
●尺寸 (单位：mm)

TO-252



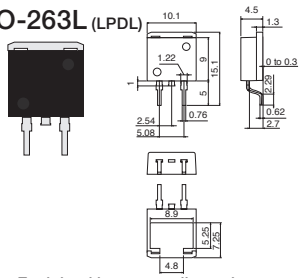
Each lead has same dimensions

TO-263S (LPDS)



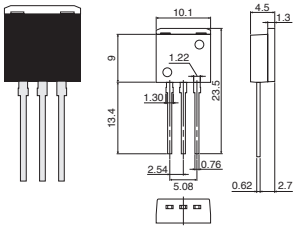
Each lead has same dimensions

TO-263L (LPDL)



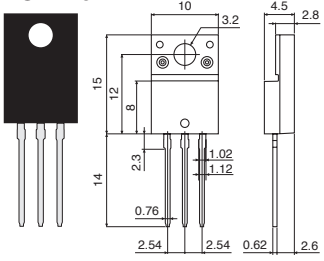
Each lead has same dimensions

TO-262



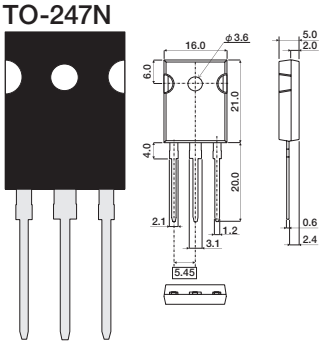
Each lead has same dimensions

TO-220NFM



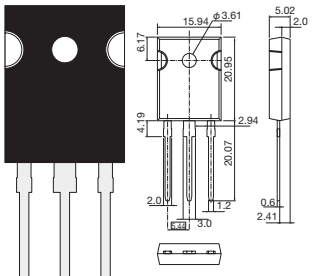
Each lead has same dimensions

TO-247N



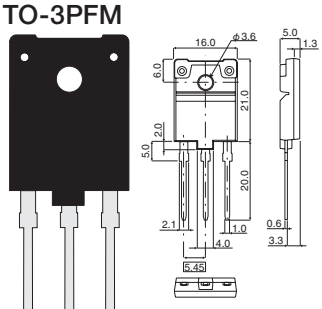
Each lead has same dimensions

TO-247GE



Each lead has same dimensions

TO-3PFM



Each lead has same dimensions

注：封装采用JEDEC表示。( )内表示ROHM封装。

●品名构成说明

R	G	T	H	4	0	T	S	6	5	D	H	R
①		②		③		④		⑤		⑥		⑦

① IGBT
② ROHM系列名称
③ 电流Ic<Tc=100° C>
例 8 → 4A
16 → 8A
30 → 15A
00 → 50A
X2 → 60A
X6 → 80A

④ 封装
例 BM → TO-252
NS → TO-263S (LPDS)/ TO-262
NL → TO263L (LPDL)
TM → TO-220NFM
TS → TO-247N/TO-247GE
TK → TO-3PFM

⑤ 电压
例 65 → 650V

⑥ 是否内置二极管
C → 内置SiC肖特基势垒二极管
D/E → 内置快速恢复二极管
R → 内置二极管(RC-IGBT)

⑦ 表示支持车载

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-252	TL	Embossed tape	2,500
TO-263S (LPDS)	TL	Embossed tape	1,000
TO-263L (LPDL)	TL	Embossed tape	1,000
TO-262	C9	Tube	50
TO-220NFM	C9	Tube	50
TO-247N	C11	Tube	30
TO-247GE	C13	Tube	30
TO-3PFM	C11	Tube	30

注：封装采用JEDEC表示。( )内表示ROHM封装。

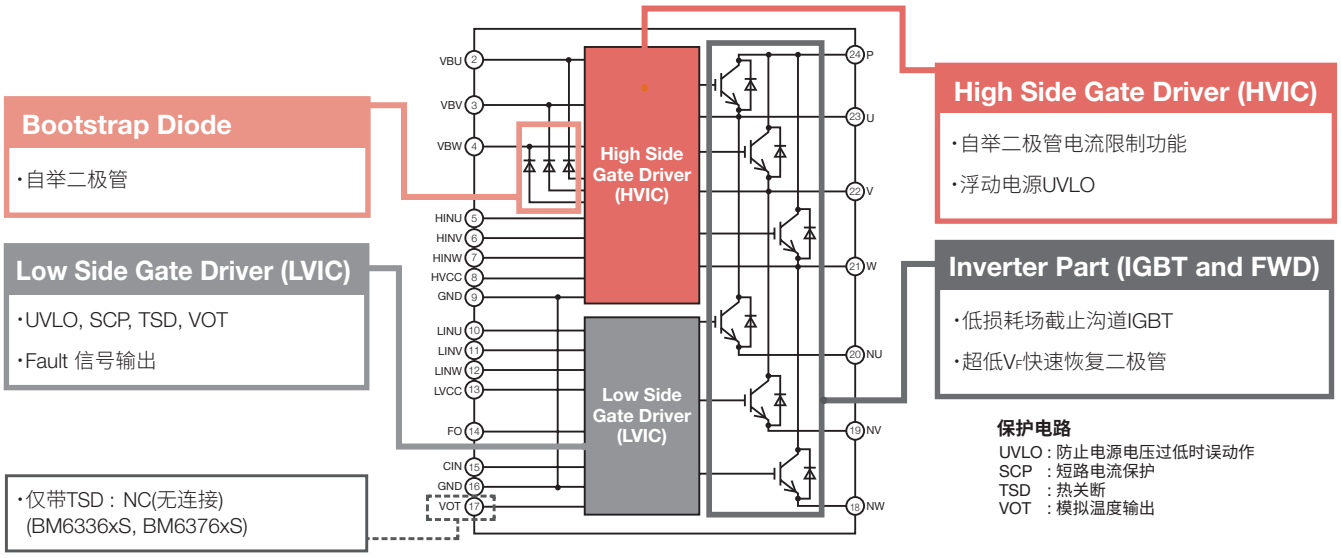
IPM(智能功率模块)

IGBT-IPM	P.144	MOS-IPM	P.144

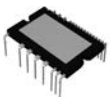
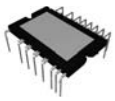
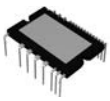
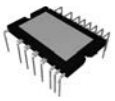
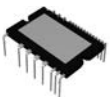
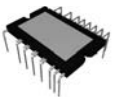
IPM(智能功率模块)

●方框图

IGBT-IPM



●IPM(智能功率模块)一览表

V_{DSS}/V_{CES} (V)	I_D/I_C (A)	IGBT-IPM				MOS-IPM
		Gen.2		Gen.3		Gen.1
		 HSDIP25	 HSDIP25-VC	 HSDIP25	 HSDIP25-VC	 HSDIP25  HSDIP25-VC
		Thermal Protective Function*		Thermal Protective Function*		Thermal Protective Function*
		TSD	VOT	TSD & VOT	VOT	TSD
600	10	BM63363S-VA BM63363S-VC BM63763S-VA BM63763S-VC	BM63563S-VA BM63563S-VC BM63963S-VA BM63963S-VC	BM63373S-VA BM63373S-VC	BM63573S-VA BM63573S-VC	
	15	BM63364S-VA BM63364S-VC BM63764S-VA BM63764S-VC	BM63564S-VA BM63564S-VC BM63964S-VA BM63964S-VC	BM63374S-VA BM63374S-VC BM64374S-VA	BM63574S-VA BM63574S-VC	BM65364S-VA BM65364S-VC
	20			BM63375S-VA BM63375S-VC BM64375S-VA	BM63575S-VA BM63575S-VC	
	30	BM63767S-VA BM63767S-VC	BM63967S-VA BM63967S-VC	BM63377S-VA BM63377S-VC BM64377S-VA	BM63577S-VA BM63577S-VC	
	35			BM64378S-VA		

*TSD：Thermal Shut Down、VOT：模拟温度输出

IPM(智能功率模块)

IGBT-IPM

Generation	Part No.	Power Device	V_{CES} (V)	I_C (A)	PWM Input Frequency (kHz)	Isolation Voltage*1 (Vrms)	Thermal Protective Function*2		Package
							TSD	VOT	
Gen.2	BM63363S-VA	IGBT	600	10	up to 6	1,500	✓		HSDIP25
	BM63363S-VC						✓		HSDIP25VC
	BM63563S-VA							✓	HSDIP25
	BM63563S-VC							✓	HSDIP25VC
	BM63763S-VA				up to 20		✓		HSDIP25
	BM63763S-VC						✓		HSDIP25VC
	BM63963S-VA							✓	HSDIP25
	BM63963S-VC							✓	HSDIP25VC
	BM63364S-VA			15	up to 6		✓		HSDIP25
	BM63364S-VC						✓		HSDIP25VC
	BM63564S-VA							✓	HSDIP25
	BM63564S-VC							✓	HSDIP25VC
	BM63764S-VA				up to 20		✓		HSDIP25
	BM63764S-VC						✓		HSDIP25VC
	BM63964S-VA							✓	HSDIP25
	BM63964S-VC							✓	HSDIP25VC
	BM63767S-VA			30			✓		HSDIP25
	BM63767S-VC						✓		HSDIP25VC
	BM63967S-VA							✓	HSDIP25
	BM63967S-VC							✓	HSDIP25VC
Gen.3	BM63373S-VA	IGBT	600	10	up to 20	1,500	✓	✓	HSDIP25
	BM63373S-VC						✓	✓	HSDIP25VC
	BM63573S-VA							✓	HSDIP25
	BM63573S-VC							✓	HSDIP25VC
	BM63374S-VA			15			✓	✓	HSDIP25
	BM63374S-VC						✓	✓	HSDIP25VC
	BM63574S-VA							✓	HSDIP25
	BM63574S-VC							✓	HSDIP25VC
	BM64374S-VA						✓	✓	HSDIP25
	BM63375S-VA			20			✓	✓	HSDIP25
	BM63375S-VC						✓	✓	HSDIP25VC
	BM63575S-VA							✓	HSDIP25
	BM63575S-VC							✓	HSDIP25VC
	BM64375S-VA						✓	✓	HSDIP25
	BM63377S-VA			30			✓	✓	HSDIP25
	BM63377S-VC						✓	✓	HSDIP25VC
	BM63577S-VA							✓	HSDIP25
	BM63577S-VC							✓	HSDIP25VC
	BM64377S-VA						✓	✓	HSDIP25
	BM64378S-VA			35			✓	✓	HSDIP25

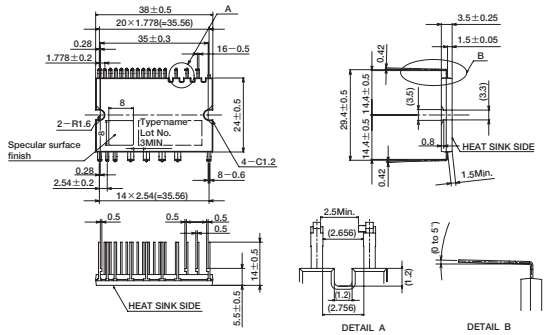
MOS-IPM

Generation	Part No.	Power Device	V_{DS} (V)	I_D (A)	Recommended Switching Frequency (kHz)	Isolation Voltage*1 (Vrms)	Thermal Protective Function*2		Package
							TSD	VOT	
Gen.1	BM65364S-VA	MOSFET	600	15	up to 20	1,500	✓		HSDIP25
	BM65364S-VC						✓		HSDIP25VC

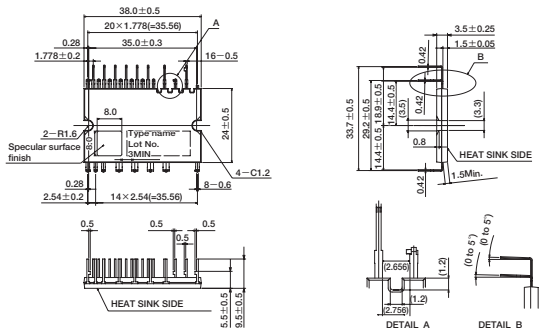
*1 AC60Hz、1min.、使用凸型散热片时支持2,500Vrms *2 TSD：Thermal Shut Down、VOT：模拟温度输出

●尺寸 (单位：mm)

HSDIP25 (Long pin type)



HSDIP25VC (Staggered type)



●品名构成说明

BM6336 4 S -xx

- BM6336 4 S：型号
- S：封装
- -xx：包装、成形规格

封装	
S	HSDIP25 HSDIP25VC

包装、成形规格	
VA	Tube, Long pin type (HSDIP25)
VC	Tube, Staggered type (control side) (HSDIP25VC)

晶体管

MOSFET P.146
双极晶体管 P.163
数字晶体管 P.174
封装 P.190
品名构成说明 P.193

小信号MOSFET

小信号MOSFET系列

Package	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (Ω) V_{GS}=10V Typ	Max	V_{GS}=4.5V Typ	Max	V_{GS}=4.0V Typ	Max	V_{GS}=2.5V Typ	Max	V_{GS}=1.8V Typ	Max	V_{GS}=1.5V Typ	Max	V_{GS}=1.2V Typ	Max	V_{GS}=0.9V Typ	Max
DFN0604-3 (VML0604) 0604 size	RV3C002UN	T2CL	N	20	0.15	0.10	–	–	1.40	2.00	–	–	1.70	2.60	–	–	2.70	5.40	–	–	–	–
	RV3CA01ZP*1	T2CL	P	−20	−0.10	0.10	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	–	–	–	–
DFN0806-3 (VML0806) 0806 size	RV1C002UN	T2CL	N	20	0.15	0.10	–	–	1.40	2.00	–	–	1.70	2.60	–	–	2.70	5.40	3.80	11.40	–	–
	RV1C001ZP	T2CL	P	−20	−0.10	0.10	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
DFN1006-3 (VML1006) [SC-101] 1006 size	RV2C010UN	T2L	N	20	1.00	0.40	–	–	0.34	0.47	–	–	0.40	0.56	–	–	0.54	0.81	0.70	1.05	–	–
	RV2C002UN	T2L		20	0.18	0.10	–	–	1.40	2.00	–	–	1.70	2.60	–	–	2.70	5.40	3.80	11.40	–	–
	RV2E014AJ	T2CL		30	1.40*2	0.6*2	–	–	0.17	0.29	–	–	0.225	0.38	–	–	–	–	–	–	–	–
	☆RV2L009GN	T2CL		60	0.90*2	0.60*2	0.48	0.72	0.66	1.06	–	–	–	–	–	–	–	–	–	–	–	–
	RV2C014BC	T2CL	P	−20	−1.40*2	0.60*2	–	–	0.22	0.30	–	–	0.28	0.39	0.37	0.70	–	–	–	–	–	–
	RV2C001ZP	T2L		−20	−0.10	0.10	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
	RV2E012AT	T2CL		−30	−1.20*2	0.60*2	0.27	0.41	0.39	0.57	–	–	–	–	–	–	–	–	–	–	–	–
DSN1006-3 (SMM1006) 1006 size	New RA1C030LD	T5CL	N	20	3.0	1.0	–	–	0.08	0.14	–	–	0.13	0.19	0.20	–	–	–	–	–	–	–
DFN1010-3 1010 size	☆RV9C010UN	G2CR	N	20	1.0	1.0	–	–	0.34	0.47	–	–	0.4	0.56			0.54	0.81	0.70	1.05	–	–
	☆RV9E020AJ	G2CR		30	2.0	1.0	–	–	0.17	0.29	–	–	0.225	0.38	–	–	–	–	–	–	–	–
	☆RV9C020BC	G2CR	P	−20	−2.0	1.0	–	–	0.21	0.28	–	–	0.27	0.37	0.39	0.60	–	–	–	–	–	–
	☆RV9E017AT	G2CR		−30	−1.7	1.0	0.26	0.34	0.40	0.52	–	–	–	–	–	–	–	–	–	–	–	–
DFN1212-3 1212 size	☆RV7E040AJ	TCR1	N	30	4.0	1.1	–	–	41	55	–	–	54	73	–	–	–	–	–	–	–	–
	☆RV7L020GN	TCR1		60	2.0	1.1	123	164	172	281	–	–	–	–	–	–	–	–	–	–	–	–
	☆RV7C040BC	TCR1	P	−20	−4.0	1.1	–	–	53	63	–	–	65	79	89	106	–	–	–	–	–	–
	☆RV7E035AT	TCR1		−30	−3.5	1.1	65	80	91	113	–	–	–	–	–	–	–	–	–	–	–	–
SOT-723 (VMT3) [SC-105AA] 1212 size	RUM002N02	T2L	N	20	0.20	0.15	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	RUM001L02	T2CL		20	0.10	0.15	–	–	2.50	3.50	–	–	3.00	4.20	–	–	4.50	9.00	6.00	18.00	–	–
	RYM002N05	T2CL		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RUM002N05	T2L		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	RSM002N06	T2L		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RZM002P02	T2L	P	−20	−0.20	0.15	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	RZM001P02	T2L		−20	−0.10	0.15	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
	RSM002P03	T2L		−30	−0.20	0.15	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–
DFN1616-6 1616 size	☆RV5L030GN	TCR1	N	60	3.0	1.5	0.104	0.148	0.131	0.223	–	–	–	–	–	–	–	–	–	–	–	–
	RV5A040AP	TCR1	P	−12	−4.00	1.50	–	–	0.044	0.062	–	–	0.055	0.077	0.075	0.110	0.090	0.180	–	–	–	–
	RV5C040AP	TCR1		−20	−4.00	1.50	–	–	0.060	0.085	–	–	0.065	0.095	0.095	0.155	0.130	0.260	–	–	–	–
SOT-416FL (EMT3F) [SC-89] 1616 size	RE1C002UN	TCL	N	20	0.20	0.15	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	RE1C001UN	TCL		20	0.10	0.15	–	–	2.50	3.50	–	–	3.00	4.20	–	–	4.50	9.00	6.00	18.00	–	–
	RE1J002YN	TCL		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RE1L002SN	TL		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RE1C002ZP	TL	P	−20	−0.20	0.15	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	RE1C001ZP	TL		−20	−0.10	0.15	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
	RE1E002SP	TCL		−30	−0.25	0.15	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–
SOT-323 (UMT3) 2021 size	New BSS138BKW	T106	N	60	0.38	0.30	0.50	0.70	0.60	0.84	–	–	1.00	4.00	–	–	–	–	–	–	–	–
	New BSS138W	T106		60	0.31	0.30	1.70	2.40	2.10	3.00	–	–	3.00	12.00	–	–	–	–	–	–	–	–
	New BSS84W	T106	P	−60	−0.21	0.30	2.80	5.30	3.50	6.40	–	–	–	–	–	–	–	–	–	–	–	–
SOT-323FL (UMT3F) [SC-85] 2021 size	RU1C002UN	TCL	N	20	0.20	0.15	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	RU1C001UN	TCL		20	0.10	0.15	–	–	2.50	3.50	–	–	3.00	4.20	–	–	4.50	9.00	6.00	18.00	–	–
	RU1J002YN	TCL		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RU1L002SN	TL		60	0.25	0.15	1.70	2.40	2.00	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RU1C002ZP	TCL	P	−20	−0.20	0.15	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	RU1C001ZP	TL		−20	−0.10	0.15	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
	RU1E002SP	TCL		−30	−0.25	0.15	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–

注1：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号。 ☆：开发中
注2：*1 过电压保护用 *2 P_W≤5s

小信号MOSFET系列

Package	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (Ω) V_{GS}=10V Typ	Max	V_{GS}=4.5V Typ	Max	V_{GS}=4.0V Typ	Max	V_{GS}=2.5V Typ	Max	V_{GS}=1.8V Typ	Max	V_{GS}=1.5V Typ	Max	V_{GS}=1.2V Typ	Max	V_{GS}=0.9V Typ	Max
SOT-23 (SST3) 2924 size	RYC002N05	T316	N	50	0.20	0.20	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RUC002N05	T116		50	0.20	0.20	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	BSS670	T116		60	0.60	0.35	0.50	0.65	0.60	0.82	–	–	1.00	4.00	–	–	–	–	–	–	–	–
	BSS138BK	T116		60	0.40	0.35	0.50	0.70	0.60	0.84	–	–	1.00	4.00	–	–	–	–	–	–	–	–
	RK7002BM	T116		60	0.25	0.20	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RSC002P03	T316	P	–30	–0.25	0.20	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–
	BSS84	T116		–60	–0.23	0.35	3.60	5.30	4.30	6.40	–	–	–	–	–	–	–	–	–	–	–	–
SOT-563 (EMT6) [SC-107C] 1616 size	EM6K6	T2R	N+N	20	0.30	0.15	–	–	–	–	0.70	1.00	0.80	1.20	1.00	1.40	–	–	–	–	–	–
	EM6K7	T2CR		20	0.20	0.15	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	EM6K33	T2R		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	EM6K34	T2CR		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	EM6K31	T2R		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	EM6J1	T2R	P+P	–20	–0.20	0.15	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	EM6M2	T2R	N+P	20	0.20	0.15	–	–	–	–	0.70	1.00	0.80	1.20	1.00	1.40	1.20	2.40	1.60	4.80	–	–
				–20	–0.20	0.15	0.80	1.20	–	–	1.00	1.50	1.30	2.20	1.60	3.50	2.40	9.60	–	–	–	–
SOT-363 (UMT6) [SC-88] 2021 size	UM6K34N	TCN	N+N	50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	UM6K33N	TN		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	UM6K31N	TN		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	UM6J1N	TN	P+P	–30	–0.20	0.15	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–

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功率MOSFET

功率MOSFET系列

Package	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	Max	V_{GS}=4.5V Typ	Max	V_{GS}=4.0V Typ	Max	V_{GS}=2.5V Typ	Max	V_{GS}=1.5V Typ	Max	Qg (nC) (V_{GS}=4.5)
SOT-323T (TUMT3) [SC-113A] 2021 size	RUF025N02	TL	N	20	2.5	0.8	–	–	39	54	–	–	49	68	80	160	5
	RUF020N02	TL		20	2	0.8	–	–	75	105	–	–	95	135	170	240	2
	RUF015N02	TL		20	1.5	0.8	–	–	130	180	–	–	170	240	220*1	310*1	1.8
	RTF025N03	TL		30	2.5	0.8	–	–	48	67	50	70	70	98	–	–	3.7
	RSF014N03	TL		30	1.4	0.8	170	240	250	350	270	380	–	–	–	–	1.4*2
	RTF016N05	TL		45	1.6	0.8	–	–	140	190	150	210	200	280	–	–	2.3
	RSF015N06	TL		60	1.5	0.8	210	290	240	330	255	350	–	–	–	–	2*2
	RAF040P01	TCL	P	–12	–4	0.8	–	–	22	30	–	–	27	38	40	68	37
	RZF030P01	TL		–12	–3	0.8	–	–	28	39	–	–	39	54	72	144	18
	RZF020P01	TL		–12	–2	0.8	–	–	75	105	–	–	105	145	200	400	6.5
	RZF013P01	TL		–12	–1.3	0.8	–	–	190	260	–	–	280	390	530	1,060	2.4
	RRF015P03	TL		–30	–1.5	0.8	115	160	170	240	190	270	–	–	–	–	3.2*2
	RSF010P05	TL		–45	–1	0.8	330	460	450	630	490	690	–	–	–	–	2.3*2
SOT-363T (TUMT6) [SC-113DA] 2021 size	RUL035N02	TR	N	20	3.5	1	–	–	31	43	–	–	38	53	66	93	5.7
	RF6E065BN	TCR		30	6.5	1	12.9	15.3	18.5	22.7	–	–	–	–	–	–	8.3
	RF6E045AJ	TCR		30	4.5	1	–	–	16.9	23.7	–	–	23.9	33.5	–	–	8.1
	RTL035N03	TR		30	3.5	1	–	–	40	56	42	59	56	79	–	–	4.6
	RXL035N03	TCR		30	3.5	1	35	50	45	65	50	70	–	–	–	–	3.3*2
	New RF6G035BG	TCR		40	3.5	1	37	46	59	80	–	–	–	–	–	–	1.8
	New RF6L025BG	TCR		60	2.5	1	70	91	100	140	–	–	–	–	–	–	1.7
	RAL035P01	TR	P	–12	–3.5	1	–	–	30	42	–	–	40	56	75	150	22
	RAL025P01	TR		–12	–2.5	1	–	–	44	62	–	–	55	77	90	180	16
	RF6C055BC	TCR		–20	–5.5	1	–	–	19.5	25.7	–	–	24.7	33.1	33.7	63.6	15.2
	RRL035P03	TR		–30	–3.5	1	36	50	52	72	58	81	–	–	–	–	8*2
	RRL025P03	TR		–30	–2.5	1	55	75	85	115	95	125	–	–	–	–	5.2*2
	US6K4	TR	N+N	20	1.5	1	–	–	130	180	–	–	170	240	220*1	310*1	1.8
	US6K1	TR		30	1.5	1	–	–	170	240	180	250	240	340	–	–	1.6
	US6K2	TR		30	1.4	1	170	240	250	350	270	380	–	–	–	–	1.4*2
	US6J12	TCR	P+P	–12	–2	1	–	–	75	105	–	–	105	145	200	400	7.6
	US6J11	TR		–12	–1.3	1	–	–	190	260	–	–	280	390	530	1,060	2.4
	US6M11	TR	N+P	20	1.5	1	–	–	130	180	–	–	170	240	300	600	1.8
				–12	–1.3	1	–	–	190	260	–	–	280	390	530	1,060	2.4
	US6M2	TR		30	1.5	1	–	–	170	240	180	250	240	340	–	–	1.6
				–20	–1	1	–	–	280	390	310	430	570	800	–	–	2.1
	US6M1	TR		30	1.4	1	170	240	250	350	270	380	–	–	–	–	1.4*2
				–20	–1	1	–	–	280	390	310	430	570	800	–	–	2.1

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注2：*1 V_{GS}=8V *2 V_{GS}=5V

功率MOSFET

功率MOSFET系列

Package	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	V_{GS}=4.0V Typ	V_{GS}=4.0V Max	V_{GS}=2.5V Typ	V_{GS}=2.5V Max	V_{GS}=1.8V Typ	V_{GS}=1.8V Max	V_{GS}=1.5V Typ	V_{GS}=1.5V Max	Qg (nC) (V_{GS}=4.5)
SOT-346T (TSMT3) [SC-96] 2928 size	RUR040N02	TL	N	20	4	1	–	–	25	35	–	–	33	46	42	59	55	110	8
	RUR020N02	TL		20	2	1	–	–	75	105	–	–	95	135	130	185	170	240	2
	RQ5E070BN	TCL		30	7	1	12.4	16.1	16.5	20.4	–	–	–	–	–	–	–	–	11.7
	RQ5E065AJ	TCL		30	6.5	1	–	–	13.7	18.1	–	–	17.9	23.7	–	–	–	–	12.2
	RQ5E040TN	TL		30	4	1	–	–	34	48	36	50	47	66	–	–	–	–	5.9
	RQ5E040AJ	TCL		30	4	1	–	–	27	37	–	–	39	54	–	–	–	–	4.3
	RQ5E035XN	TCL		30	3.5	1	35	50	45	65	50	70	–	–	–	–	–	–	3.3*1
	RQ5E035BN	TCL		30	3.5	1	28	37	43	56	–	–	–	–	–	–	–	–	3.1
	RQ5E030AJ	TCL		30	3	1	–	–	57	75	–	–	81	109	–	–	–	–	2.1
	RQ5E025SN	TL		30	2.5	1	50	70	74	105	83	118	–	–	–	–	–	–	2.9*1
	RQ5E025TN	TL		30	2.5	1	–	–	66	92	70	98	95	133	–	–	–	–	3.3
	RQ5H030TN	TL		45	3	1	–	–	48	67	53	74	68	95	–	–	–	–	6.2
	RQ5H025TN	TL		45	2.5	1	–	–	95	130	100	140	125	175	–	–	–	–	3.2
	RQ5H020TN	TL		45	2	1	–	–	130	180	135	190	180	250	–	–	–	–	2.9
	RQ5L030SN	TL		60	3	1	60	85	70	100	75	105	–	–	–	–	–	–	5*1
	RQ5L020SN	TL		60	2	1	120	170	140	195	150	210	–	–	–	–	–	–	2.7*1
	RQ5P010SN	TL		100	1	1	370	520	400	560	410	580	–	–	–	–	–	–	3.5*1
	RQ5A040ZP	TL	P	–12	–4	1	–	–	22	30	–	–	30	42	40	60	55	110	30
	RQ5A030AP	TL		–12	–3	1	–	–	44	62	–	–	55	77	75	110	90	180	16
	RQ5A025ZP	TL		–12	–2.5	1	–	–	44	61	–	–	60	84	81	121	110	220	13
	RQ5A020ZP	TL		–12	–2	1	–	–	75	105	–	–	105	145	150	225	200	400	6.5
	RQ5C060BC	TCL		–20	–6	1	–	–	16.1	21.1	–	–	20.3	26.9	27.4	51.0	–	–	19.2
	RQ5C035BC	TCL		–20	–3.5	1	–	–	42	59	–	–	54	76	84	135	–	–	6.5
	RQ5C030TP	TL		–20	–3	1	–	–	55	75	60	85	90	125	–	–	–	–	9.3
	RQ5C025TP	TL		–20	–2.5	1	–	–	70	95	75	105	115	160	–	–	–	–	7
	RQ5C020TP	TL		–20	–2	1	–	–	100	135	110	150	180	250	–	–	–	–	4.9
	RQ5E050AT	TCL		–30	–5	1	21	26	30	37	–	–	–	–	–	–	–	–	9.7
	RQ5E040RP	TL		–30	–4	1	32	45	45	63	52	72	–	–	–	–	–	–	10.5*1
	RQ5E035AT	TCL		–30	–3.5	1	38	50	54	70	–	–	–	–	–	–	–	–	5.2
	RQ5E030RP	TL		–30	–3	1	55	75	85	115	95	125	–	–	–	–	–	–	5.2*1
	RQ5E025SP	TL		–30	–2.5	1	70	98	100	140	115	160	–	–	–	–	–	–	5.4*1
	RQ5E025AT	TCL		–30	–2.5	1	70	91	104	135	–	–	–	–	–	–	–	–	2.7
	RQ5E020SP	TL		–30	–2	1	85	120	135	190	150	210	–	–	–	–	–	–	4.3*1
	RQ5E015RP	TL		–30	–1.5	1	115	160	170	240	190	270	–	–	–	–	–	–	3.2*1
	RQ5H020SP	TL		–45	–2	1	130	190	180	260	200	280	–	–	–	–	–	–	9.5*2
	RQ5L015SP	TL		–60	–1.5	1	200	280	240	340	255	360	–	–	–	–	–	–	10*2
SOT-25T (TSMT5) 2928 size	QS5K2	TR	N+N	30	2	1.25	–	–	71	100	76	107	110	154	–	–	–	–	2.8
SOT-457T (TSMT6) [SC-95] 2928 size	RQ6C050UN	TR	N	20	5	1.25	–	–	22	30	–	–	27	38	32	45	40	80	12
	RQ6E085BN	TCR		30	8.5	1.25	11.1	14.4	13.9	17.3	–	–	–	–	–	–	–	–	16.6
	RQ6E080AJ	TCR		30	8	1.25	–	–	12.5	16.5	–	–	15.7	19.5	–	–	–	–	16.2
	RQ6E055BN	TR		30	5.5	1.25	19	25	30	39	–	–	–	–	–	–	–	–	4.4
	RQ6E050AJ	TCR		30	5	1.25	–	–	26	35	–	–	38	50	–	–	–	–	4.7
	RQ6E045BN	TCR		30	4.5	1.25	21	30	35	49	–	–	–	–	–	–	–	–	4.7
	RQ6E045TN	TR		30	4.5	1.25	–	–	30	43	32	45	42	60	–	–	–	–	7.6
	RQ6E045SN	TR		30	4.5	1.25	27	38	36	51	40	56	–	–	–	–	–	–	6.8*1
	RQ6E040XN	TCR		30	4	1.25	35	50	45	65	50	70	–	–	–	–	–	–	33*1
	RQ6E035TN	TR		30	3.5	1.25	–	–	38	54	40	56	55	77	–	–	–	–	4.6
	RSQ020N03	TR		30	2	1.25	96	134	148	207	168	235	–	–	–	–	–	–	2.2*1
	RTQ020N03	TR		30	2	1.25	–	–	89	125	94	132	138	194	–	–	–	–	2.4
	RVQ040N05	TR		45	4	1.25	38	53	47	66	53	74	–	–	–	–	–	–	6.3*1
	RTQ020N05	TR		45	2	1.25	–	–	140	190	150	210	200	280	–	–	–	–	2.3
	RSQ015N06	TR		60	1.5	1.25	210	290	240	330	255	350	–	–	–	–	–	–	2*1
	QS6K1	TR	N+N	30	1	1.25	–	–	170	238	180	252	260	364	–	–	–	–	1.7
	QS6K21	TR		45	1	1.25	–	–	300	420	310	435	415	585	–	–	–	–	1.5
	RQ6A050ZP	TR	P	–12	–5	1.25	–	–	19	26	–	–	26	36	33	49	44	88	35
	RQ6A045AP	TCR		–12	–4.5	1.25	–	–	22	30	–	–	28	39	38	57	50	100	40
	RAQ045P01	TCR		–12	–4.5	1.25	–	–	22	30	–	–	28	39	38	57	50	100	40
	RQ6A045ZP	TR		–12	–4.5	1.25	–	–	25	35	–	–	31	43	39	58	50	100	31
	RQ6C065BC	TCR		–20	–6.5	1.25	–	–	14.9	21	–	–	18.6	26	25	50	–	–	22
	RQ6C050BC	TCR		–20	–5	1.25	–	–	27	36	–	–	35	47	48	77	–	–	10.4
	RQ6E060AT	TCR		–30	–6	1.25	20.3	26.4	26.8	34.6	–	–	–	–	–	–	–	–	12.9
	RQ6E050AT	TCR		–30	–5	1.25	21	27	29	38	–	–	–	–	–	–	–	–	10.4
	RQ6E045RP	TR		–30	–4.5	1.25	25	35	34	48	38	53	–	–	–	–	–	–	14*1
	RRQ045P03	TR		–30	–4.5	1.25	25	35	34	48	38	53	–	–	–	–	–	–	14*1
	RQ6E035AT	TCR		–30	–3.5	1.25	38	50	54	70	–	–	–	–	–	–	–	–	5.2
	RQ6E035SP	TR		–30	–3.5	1.25	45	65	65	90	70	95	–	–	–	–	–	–	9.2*1
	RQ6E030AT	TCR		–30	–3	1.25	70	91	104	135	–	–	–	–	–	–	–	–	2.7
	RQ6E030SP	TR		–30	–3	1.25	60	80	90	125	100	140	–	–	–	–	–	–	6*1
	RRQ020P03	TR		–30	–2	1.25	115	160	170	240	190	270	–	–	–	–	–	–	3.2*1
	RQ6G050AT	TCR		–40	–5	1.25	31	40	38	49	–	–	–	–	–	–	–	–	11
	RQ6L035AT	TCR		–60	–3.5	1.25	62	78	69	87	–	–	–	–	–	–	–	–	11
	RQ6L020SP	TCR		–60	–2	1.25	150	210	180	252	190	266	–	–	–	–	–	–	7.2*1
	New RQ6P020AT	TCR		–100	–2	1.25	166	220	177	230	–	–	–	–			–	–	12
	RQ6P015SP	TR		–100	–1.5	1.25	350	470	380	510	400	540	–	–	–	–	–	–	17*1
	QS6J11	TR	P+P	–12	–2	1.25	–	–	75	105	–	–	105	145	150	225	200	400	6.5
	QS6J1	TR		–20	–1.5	1.25	–	–	155	215	170	235	310	430	–	–	–	–	3
	QS6M4	TR	N+P	30	1.5	1.25	–	–	170	230	180	245	260	360	–	–	–	–	1.6
				–20	–1.5	1.25	–	–	155	215	170	235	310	430	–	–	–	–	3

注1：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号。 注2：*1 V_{GS}=5V *2 V_{GS}=10V

功率MOSFET系列 <TSMT封装>

Package	Product No. Part No.	Packing code	Polarity (ch)	VDSS (V)	ID (A)	PD (W) (Ta=25°C)	RDS (on) (mΩ) VGS=10V Typ	VGS=10V Max	VGS=4.5V Typ	VGS=4.5V Max	VGS=4.0V Typ	VGS=4.0V Max	VGS=2.5V Typ	VGS=2.5V Max	VGS=1.8V Typ	VGS=1.8V Max	VGS=1.5V Typ	VGS=1.5V Max	Qg (nC) (VGS=4.5)
(TSMT8) 3028 size	RQ1C075UN	TR	N	20	7.5	1.5	–	–	11	16	–	–	14	20	17	24	20	40	18
	RQ1C065UN	TR		20	6.5	1.5	–	–	16	22	–	–	19	27	24	32	29	58	11
	RQ7E110AJ	TCR		30	11	1.5	–	–	6.8	9	–	–	9.1	12.4	–	–	–	–	22
	RQ1E100XN	TR		30	10	1.5	7.5	10.5	9.5	13.3	10	14	–	–	–	–	–	–	12.7*1
	RQ1E075XN	TCR		30	7.5	1.5	12	17	17	24	19	27	–	–	–	–	–	–	6.8*1
	RQ7G080BG	TCR		40	8	1.5	12.7	16.5	15.5	24	–	–	–	–	–	–	–	–	5.0
	RQ7L055BG	TCR		60	5.5	1.5	22	29	30	42	–	–	–	–	–	–	–	–	3.9
	QH8KA4	TCR	N+N	30	9	1.5	–	–	12.5	17	13	18	17	24	–	–	–	–	12
	QH8KA3	TCR		30	9.0*2	2.6*2	12.3	16.0	18.2	23.7	–	–	–	–	–	–	–	–	7.9
	QS8K13	TCR		30	6	1.5	20	28	25	35	28	39	–	–	–	–	–	–	5.5*1
	QH8KA2	TCR		30	4.5	1.5	25	35	40	56	–	–	–	–	–	–	–	–	4.7
	QH8KA1	TCR		30	4.5*2	2.4*2	56	73	86	112	–	–	–	–	–	–	–	–	1.5
	QS8K11	TCR		30	3.5	1.5	35	50	45	65	50	70	–	–	–	–	–	–	3.3*1
	QH8KB6	TCR		40	8	1.5	13.7	17.7	16.4	27	–	–	–	–	–	–	–	–	5.0
	QH8KB5	TCR		40	7.5*2	1.5	34	44	44	74	–	–	–	–	–	–	–	–	1.8
	QS8K21	TR		45	4	1.5	38	53	48	67	53	75	–	–	–	–	–	–	5.4*1
	QH8KC6	TCR		60	5.5	1.5	23	30	31	44	–	–	–	–	–	–	–	–	3.9
	QH8KC5	TCR		60	3	1.5	70	90	100	140	–	–	–	–	–	–	–	–	1.7
	New QH8KE6	TCR		100	4	1.5	43	56	55	82	–	–	–	–	–	–	–	–	3.7
	New QH8KE5	TCR		100	2	1.5	155	202	199	299	–	–	–	–	–	–	–	–	1.6
	QH8K51	TR		100	2	1.5	240	325	250	340	260	355	–	–	–	–	–	–	4.7*1
	RQ1A070AP	TR	P	–12	–7	1.5	–	–	10	14	–	–	13	19	18	27	24	48	80
	RQ1A060ZP	TR		–12	–6	1.5	–	–	16	23	–	–	22	31	28	42	39	78	34
	RQ7E100AT	TCR		–30	–10	1.5	8.7	11.2	11.9	14.8	–	–	–	–	–	–	–	–	26
	RQ1E070RP	TR		–30	–7	1.5	12	17	17	24	19	27	–	–	–	–	–	–	26*1
	RQ7E055AT	TCR		–30	–5.5	1.5	19.3	24.5	28.2	36.1	–	–	–	–	–	–	–	–	9.4
	RQ1E050RP	TR		–30	–5	1.5	22	31	32	45	36	50	–	–	–	–	–	–	13*1
	RQ7G080AT	TCR		–40	–8	1.5	14.7	18.2	18.1	22.6	–	–	–	–	–	–	–	–	18
	RQ7L050AT	TCR		–60	–5	1.5	31	39	35	44	–	–	–	–	–	–	–	–	18
	QS8J13	TR	P+P	–12	–5.5	1.5	–	–	15	22	–	–	19	28	24	38	29	58	60
	QS8J2	TR		–12	–4	1.5	–	–	26	36	–	–	36	50	46	69	66	132	20
	QH8JA1	TCR		–20	–5	1.5	–	–	28	38	–	–	35	48	49	77	–	–	10.2
	QS8J5	TR		–30	–5	1.5	28	39	40	56	45	63	–	–	–	–	–	–	10*1
	QS8J4	TR		–30	–4	1.5	40	56	55	77	60	84	–	–	–	–	–	–	8.4*1
	QH8JB5	TCR		–40	–5	1.5	33	41	41	51	–	–	–	–	–	–	–	–	9.0
	QH8JC5	TCR		–60	–3.5	1.5	71	91	79	101	–	–	–	–	–	–	–	–	8.5
	New QH8JE5	TCR		–100	–2	1.5	210	270	220	290	–	–	–	–	–	–	–	–	10.2
	QH8MA4	TCR	N+P	30	9*2	2.6*2	12.3	16	18.2	23.7	–	–	–	–	–	–	–	–	7.9
				–30	–8*2	2.6*2	22	28.6	31	40.3	–	–	–	–	–	–	–	–	9.8
	QH8MA3	TCR		30	7*2	2.5*2	22	29	35	46	–	–	–	–	–	–	–	–	3.7
				–30	–5.5*2	2.5*2	37	48	55	72	–	–	–	–	–	–	–	–	5.2
	QH8MA2	TCR		30	4.5	1.5	25	35	40	56	–	–	–	–	–	–	–	–	4.7
				–30	–3	1.5	55	80	80	115	–	–	–	–	–	–	–	–	4.3
	QH8MB5	TCR		40	4.5	1.5	34	44	44	74	–	–	–	–	–	–	–	–	1.8
				–40	–5	1.5	33	41	41	51	–	–	–	–	–	–	–	–	9.0
	QH8MC5	TCR		60	3	1.5	70	90	100	140	–	–	–	–	–	–	–	–	1.7
				–60	–3.5	1.5	71	91	79	101	–	–	–	–	–	–	–	–	8.5
	QS8M31	TR		60	3	1.5	80	112	93	130	98	137	–	–	–	–	–	–	4*1
				–60	–2	1.5	150	210	180	252	190	266	–	–	–	–	–	–	7.2*1
	New QH8ME5	TCR		100	2	1.5	147	190	190	290	–	–	–	–	–	–	–	–	1.6
				–100	–2	1.5	210	270	220	290	–	–	–	–	–	–	–	–	10.2
	QS8M51	TR		100	2	1.5	240	325	250	340	260	355	–	–	–	–	–	–	4.7*1
				–100	–1.5	1.5	350	470	380	510	400	540	–	–	–	–	–	–	17*1

注1：( )内表示ROHM封装。
注2：*1 VGS=5V *2 PW≤1s

●肖特基势垒二极管复合型功率MOSFET系列 (TUMT、TSMT封装)

肖特基势垒二极管复合型功率MOSFET系列

Package	Product No. Part No.	Packing code	Polarity (ch)	VDSS (V)	ID (A)	PD (W) (Ta=25°C)	RDS (on) (mΩ) VGS=10V Typ	VGS=10V Max	VGS=4.5V Typ	VGS=4.5V Max	VGS=4.0V Typ	VGS=4.0V Max	VGS=2.5V Typ	VGS=2.5V Max	VGS=1.5V Typ	VGS=1.5V Max	Qg (nC) (VGS=4.5V)
SOT-353T (TUMT5) [SC-113CA] 2021 size	US5U1	TR	N+SBD (0.5A)	30	1.5	1	–	–	170	240	180	250	240	340	–	–	1.6
	US5U2	TR		30	1.4	1	170	240	250	350	270	380	–	–	–	–	1.4*1
	US5U30	TR	P+SBD (0.5A)	–20	–1	1	–	–	280	390	310	430	570	800	–	–	2.1
	US5U35	TR	P+SBD (0.1A)	–45	–0.7	1	600	800	900	1,300	1,000	1,400	–	–	–	–	1.7*1
SOT-25T (TSMT5) 2928 size	QS5U36	TR	N+SBD (0.7A)	20	2.5	1.25	–	–	58	81	–	–	74	104	120	240	3.5
	QS5U34	TR	N+SBD (0.5A)	20	1.5	1.25	–	–	130	180	–	–	170	240	220*6	310*6	1.8
	QS5U13*2	TR	N+SBD (0.5A)	30	2	1.25	–	–	71	100	76	107	110	154	–	–	2.8
	QS5U16*2	TR		30	2	1.25	–	–	71	100	76	107	110	154	–	–	2.8
	QS5U12*3	TR	N+SBD (1A)	30	2	1.25	–	–	71	100	76	107	110	154	–	–	2.8
	QS5U17*3	TR		30	2	1.25	–	–	71	100	76	107	110	154	–	–	2.8
	QS5U28	TR	P+SBD (1A)	–20	–2	1.25	–	–	90	125	97	135	175	245	–	–	4.8
	QS5U23*4	TR	P+SBD (0.5A)	–20	–1.5	1.25	–	–	160	200	180	240	260	340	–	–	4.2
	QS5U26*4	TR		–20	–1.5	1.25	–	–	160	200	180	240	260	340	–	–	4.2
	QS5U21*5	TR	P+SBD (1A)	–20	–1.5	1.25	–	–	160	200	180	240	260	340	–	–	4.2
	QS5U27*5	TR		–20	–1.5	1.25	–	–	160	200	180	240	260	340	–	–	4.2
	QS5U33	TR	P+SBD (1A)	–30	–2	1.25	95	135	145	205	160	225	–	–	–	–	3.4*1
SOT-457T (TSMT6) [SC-95] 2928 size	QS6U22	TR	P+SBD (0.7A)	–20	–1.5	1.25	–	–	155	215	170	235	310	430	–	–	3
	QS6U24	TR		–30	–1	1.25	300	400	500	700	600	800	–	–	–	–	1.7*6

注1：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。
注2：*1 VGS=5V *2, *3, *4, *5 上下品名的特性相同，但内部电路不同。 *6 VGS=1.8V

功率MOSFET

●肖特基势垒二极管复合型功率MOSFET系列

(TUMT、TSMT封装)

功率MOSFET系列 <MPT3、HEML1616L7、HUML2020L8、HSMT8、HSML3030L10封装>

Package	Application	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=6V Typ	V_{GS}=6V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	V_{GS}=4.0V Typ	V_{GS}=4.0V Max	V_{GS}=2.5V Typ	V_{GS}=2.5V Max	V_{GS}=1.8V Typ	V_{GS}=1.8V Max	V_{GS}=1.5V Typ	V_{GS}=1.5V Max	Qg (nC) (V_{GS}=4.5V)
 SOT-89 (MPT3) [SC-62] 4540 size	DC-DC Converter Motor Drive	RHP030N03	T100	N	30	3	2	90	120	—	—	—	—	160	210	—	—	—	—	—	—	6.5*1
		RHP020N06	T100		60	2	2	150	200	—	—	200	280	240	340	—	—	—	—	—	—	7*1
		RJP020N06	T100		60	2	2	—	—	—	—	165	240	170	250	210	300	—	—	—	—	5*2
 (HEML1616L7) Single 1616 size 〈DFN1616-7T〉	Load Switch Switching	RW4E075AJ	TCL1	N	30	7.5	1.5	—	—	—	—	18.5	26	—	—	26.6	38	—	—	—	—	6.3
		RW4E065GN	TCL1		40	6.5	1.5	18.2	22.5	—	—	25.1	31.6	—	—	—	—	—	—	—	—	2.1
		RW4E045AJ	TCL1		30	4.5	1.5	—	—	—	—	28	40	—	—	41	58	—	—	—	—	4
		RW4E045AT	TCL1	P	−30	−4.5	1.5	34	48	—	—	50	70	—	—	—	—	—	—	—	—	5.3
		RW4C045BC	TCL1		−20	−4.5	1.5	—	—	—	—	39	56	—	—	52	74	73	117	—	—	6.5
 (HUML2020L8) Single 2020 size 〈DFN2020-8S〉	DC-DC Converter Motor Drive	RF4E110GN	TR	N	30	11	2	8.7	11.3	—	—	11.7	16.5	—	—	—	—	—	—	—	—	3.5
		RF4E080GN	TR		30	8	2	13.5	17.6	—	—	17.6	31.2	—	—	—	—	—	—	—	—	2.8
		RF4E070GN	TR		30	7	2	16.4	21.4	—	—	23	33	—	—	—	—	—	—	—	—	2.2
		RF4G100BG	TCR		40	10	2	10.9	14.2	—	—	13.7	23.0	—	—	—	—	—	—	—	—	5.0
		RF4L070BG	TCR		60	7	2	21	27	—	—	29	40	—	—	—	—	—	—	—	—	3.9
	Load Switch Switching	RF4E110BN	TR		30	11	2	8.5	11.1	—	—	11.8	15.4	—	—	—	—	—	—	—	—	12
		RF4E100AJ	TCR		30	10	2	—	—	—	—	9.4	12.4	—	—	13.3	17.9	—	—	—	—	13
		RF4E080BN	TR1		30	8	2	13.5	17.6	—	—	18.9	24.6	—	—	—	—	—	—	—	—	7.2
		RF4E070BN	TR		30	7	2	22	28.6	—	—	30.8	40	—	—	—	—	—	—	—	—	4.6
		RF4E060AJ	TCR		30	6	2	—	—	—	—	28	37	—	—	41	55	—	—	—	—	4
		New RF4P060BG	TCR		100	6	2	41	53	—	—	52	78	—	—	—	—	—	—	—	—	3.7
		RF4C050AP	TR	P	−20	−10	2	—	—	—	—	18	26	—	—	22	31	27	45	32	65	55
		RF4C100BC	TCR		−20	−10	2	—	—	—	—	12	15.6	—	—	15.4	20	23.5	37.6	—	—	23.5
		RF4E075AT	TCR		−30	−7.5	2	16.7	21.7	—	—	24.4	31.7	—	—	—	—	—	—	—	—	11
		RF4G060AT	TCR		−40	−6	2	32	40	—	—	40	51	—	—	—	—	—	—	—	—	8.5
		RF4L040AT	TCR		−60	−4	2	70	89	—	—	78	100	—	—	—	—	—	—	—	—	8.5
		New RF4P025AT	TCR		−100	−2.5	2	200	260	—	—	220	280	—	—	—	—	—	—	—	—	10.2
 (HUML2020L8) Dual 2020 size 〈DFN2020-8D〉	Load Switch Switching	UT6K3	TCR	N+N	30	5.5	2	—	—	—	—	30	42	—	—	45	63	—	—	—	—	4
		UT6KB5	TCR		40	5	2	37	48	—	—	48	80	—	—	—	—	—	—	—	—	1.8
		UT6KC5	TCR		60	3.5	2	73	95	—	—	104	145	—	—	—	—	—	—	—	—	1.7
		New UT6KE5	TCR		100	2	2	152	197	—	—	195	292	—	—	—	—	—	—	—	—	1.6
		UT6JA3	TCR	P+P	−20	−5	2	—	—	—	—	42	59	—	—	54	76	76	118	—	—	6.5
		UT6J3	TCR		−20	−3	2	—	—	—	—	60	85	—	—	65	95	95	155	130	260	85
		UT6JA2	TCR		−30	−4	2	55	70	—	—	80	103	—	—	—	—	—	—	—	—	3.4
		UT6JB5	TCR		−40	−3.5	2	95	122	—	—	121	155	—	—	—	—	—	—	—	—	3.3
		UT6JC5	TCR		−60	−2.5	2	220	280	—	—	250	320	—	—	—	—	—	—	—	—	3.2
		New UT6JE5	TCR		−100	−1	2	650	840	—	—	690	900	—	—	—	—	—	—	—	—	3.7
	Motor	UT6MA3	TBR	N+P	20	5.5	2	—	—	—	—	30	42	—	—	45	63	—	—	—	—	4
					−20	−5	2	—	—	—	—	42	59	—	—	54	76	—	—	—	—	6.5
		UT6MA2	TCR		30	4	2	37	46	—	—	59	80	—	—	—	—	—	—	—	—	2.2
					−30	−4	2	55	70	—	—	80	103	—	—	—	—	—	—	—	—	3.3
		New UT6ME5	TCR		100	2	2	159	207	—	—	230	345	—	—	—	—	—	—	—	—	1.6
					−100	−1	2	650	840	—	—	690	900	—	—	—	—	—	—	—	—	3.7

注1：封装采用JEDEC表示。( )内表示ROHM封装。[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。
注2: *1 V_{GS}=10V *2 V_{GS}=4V

功率MOSFET系列 <MPT3、HEML1616L7、HUML2020L8、HSMT8、HSML3030L10封装>

Package	Application	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=6V Typ	V_{GS}=6V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	V_{GS}=4.0V Typ	V_{GS}=4.0V Max	V_{GS}=2.5V Typ	V_{GS}=2.5V Max	V_{GS}=1.8V Typ	V_{GS}=1.8V Max	V_{GS}=1.5V Typ	V_{GS}=1.5V Max	Qg (nC) (V_{GS}=4.5V)
 (HSMT8) 3333 size Single	DC-DC Converter Switching	RQ3E180GN	TB	N	30	39*1	20*1	3.3	4.3	–	–	4.3	6.1	–	–	–	–	–	–	–	–	11
		RQ3E150GN	TB		30	39*1	17*1	4.7	6.1	–	–	6.2	8.8	–	–	–	–	–	–	–	–	7.4
		RQ3E120GN	TB		30	27*1	15*1	6.7	8.8	–	–	9.1	13.8	–	–	–	–	–	–	–	–	4.8
		RQ3E100GN	TB		30	21*1	15*1	8.9	11.7	–	–	12	20	–	–	–	–	–	–	–	–	3.9
		RQ3E080GN	TB		30	18*1	14*1	12.9	16.7	–	–	17.5	31.2	–	–	–	–	–	–	–	–	2.8
		New RH6G040BG	TB1		40	40*1	59*1	2.8	3.6	–	–	4.7	6.5	–	–	–	–	–	–	–	–	12.4
		New RH6L040BG	TB1		60	40*1	59*1	5.5	7.1	–	–	8	11.2	–	–	–	–	–	–	–	–	9.2
		New RH6P040BH	TB1		100	40	59	12	15.6	15.6	23.3	–	–	–	–	–	–	–	–	–	–	8.8*2
		RQ3P300BH	TB1		100	39*1	32*1	11.9	15.5	15.6	24.0	–	–	–	–	–	–	–	–	–	–	18*2
		New RH6R025BH	TB1		150	25*1	59*1	46	60	49	73	–	–	–	–	–	–	–	–	–	–	8.7*2
	Load Switch Switching	RQ3E180BN	TB		30	39*1	20*1	2.8	3.9	–	–	3.7	5.2	–	–	–	–	–	–	–	–	37
		RQ3E150BN	TB		30	39*1	17*1	3.8	5.3	–	–	5.3	7.4	–	–	–	–	–	–	–	–	23
		RQ3E130BN	TB		30	39*1	16*1	4.4	6	–	–	6.7	9.4	–	–	–	–	–	–	–	–	16
		RQ3E180AJ	TB1		30	30*1	30*1	–	–	–	–	3.5	4.5	–	–	4.5	5.8	–	–	–	–	39
		RQ3E110AJ	TB		30	24*1	15*1	–	–	–	–	8.8	11.7	–	–	12.6	16.5	–	–	–	–	13.5
		RQ3E120BN	TB		30	21*1	16*1	6.6	9.3	–	–	8.6	11.9	–	–	–	–	–	–	–	–	14
		RQ3E100BN	TB		30	21*1	15*1	7.7	10.4	–	–	11	15.3	–	–	–	–	–	–	–	–	10.5
		RQ3E160AD	TB		30	16	2	3.5	4.5	–	–	5	7	–	–	–	–	–	–	–	–	25
		RQ3E080BN	TB		30	15*1	14*1	11	15.2	–	–	16	22	–	–	–	–	–	–	–	–	7.2
		RQ3E070BN	TB1		30	15*1	13*1	20	27	–	–	29	39	–	–	–	–	–	–	–	–	4.6
		RQ3C150BC	TB	P	–20	–30*1	20*1	–	–	–	–	4.8	6.7	–	–	6.1	8.5	8.8	14	–	–	60
		RQ3E120AT	TB		–30	–39*1	20*1	6.1	8	–	–	8.7	11.3	–	–	–	–	–	–	–	–	33
		RQ3E100AT	TB		–30	–31*1	17*1	9	11.4	–	–	13.1	16.7	–	–	–	–	–	–	–	–	21
		RQ3E075AT	TB		–30	–18*1	15*1	17.4	23	–	–	26	33	–	–	–	–	–	–	–	–	10.4
		RQ3G110AT	TB		–40	–35*1	20	9.8	12.4	–	–	12.3	15.7	–	–	–	–	–	–	–	–	20
		RQ3L070AT	TB		–60	–25*1	20	22	28	–	–	25	32	–	–	–	–	–	–	–	–	21
		New RQ3P045AT	TB1		–100	–14.5*1	20*1	67	86	–	–	71	92	–	–	–	–	–	–	–	–	25
 (HSMT8) 3333 size Dual	Moter	New HT8KB6	TB1	N+N	40	15*1	14*1	13.3	17.2	–	–	19.3	27	–	–	–	–	–	–	–	–	5
		New HT8KB5	TB1		40	12*1	13*1	36	47	–	–	58	81	–	–	–	–	–	–	–	–	1.8
		New HT8KC6	TB1		60	15*1	14*1	23	29	–	–	31	43	–	–	–	–	–	–	–	–	3.9
		New HT8KC5	TB1		60	10*1	13*1	69	90	–	–	99	139	–	–	–	–	–	–	–	–	1.7
		New HT8KE6	TB1		100	13*1	14*1	44	57	–	–	56	83	–	–	–	–	–	–	–	–	3.7
		New HT8KE5	TB1		100	7*1	13*1	148	193	–	–	200	300	–	–	–	–	–	–	–	–	1.7
 (HSML3030L10) 3030 size	DC-DC Converter	HS8K1	TB	N+N	30	10	2	11.2	14.6	–	–	14.7	20	–	–	–	–	–	–	–	–	2.7
					30	11	2	9.1	11.8	–	–	11.9	16.5	–	–	–	–	–	–	–	–	3.3
		HS8K11	TB		30	7	2	12.8	17.9	–	–	20.8	29.1	–	–	–	–	–	–	–	–	5.7
					30	11	2	10.2	13.3	–	–	11.8	15.4	–	–	–	–	–	–	–	–	9
 (HSML3333L9) 3333 size 〈DFN3333-9DC〉	Moter	HS8MA2	TCR1	N+P	30	7.0	2	25	35	–	–	40	56	–	–	–	–	–	–	–	–	4.7
					–30	–5.5	2	55	80	–	–	80	115	–	–	–	–	–	–	–	–	4.3

注1：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号。
注2: *1 T_C=25° C *2 V_{GS}=10V

功率MOSFET

<SOP8封装> (单路)

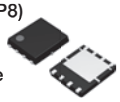
Package	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	V_{GS}=4.0V Typ	V_{GS}=4.0V Max	Qg (nC) (V_{GS}=5V)
(SOP8) 5060 size 	RS3E135BN	TB	N	30	13.5	2	5.7	7.4	8.5	10.9	–	–	16.6*1
	RXH125N03	TB		30	12.5	2	7.5	12	9.5	13.3	10	14	12.7
	RXH100N03	TB1		30	10	2	9.5	13	12	17	13	18	11
	RS3E095BN	TB		30	9.5	2	11.9	14.6	17.5	21.9	–	–	8.3*1
	RXH090N03	TB1		30	9	2	12	17	17	24	19	27	6.8
	RXH070N03	TB1		30	7	2	20	28	25	35	28	39	5.8
	RSH070N05	TB1		45	7	2	18	25	23	32	25	35	12
	RSH065N06	TB1		60	6.5	2	24	37	28	44	31	48	11
	RS3E180AT	TB1	P	–30	–18	2	4.1	5.4	5	6.1	–	–	80*1
	RRH140P03	TB		–30	–14	2	5	7	6.7	9.4	7.3	10.2	80
	RS3E130AT	TB1		–30	–13	2	6.5	8.5	8.6	11.2	–	–	83*2
	RRH100P03	TB1		–30	–10	2	9	12.6	12.5	17.5	14	19.6	39
	RRH090P03	TB1		–30	–9	2	11	15.4	15	21	17	24	30
	RS3E075AT	TB1		–30	–7.5	2	18	23.5	24	31	–	–	12.8*1
	RRH050P03	TB1		–30	–5	2	36	50	52	72	58	80	9.2
	RRH040P03	TB1		–30	–4	2	55	75	85	115	95	125	5.2
	RS3G160AT	TB1		–40	–16	2	5	6.2	6.1	7.6	–	–	55*1
	RSH070P05	TB1		–45	–7	2	19	27	25	35	28	39	34
	RS3L110AT	TB1		–60	–11	2	10.1	12.8	11.2	14.3	–	–	55*1
	New RS3P070AT	TB1		–100	–7	2	28	36	30	38	–	–	57*1

<SOP8封装> (双路)

Package	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	V_{GS}=4.0V Typ	V_{GS}=4.0V Max	Qg (nC) (V_{GS}=5V)
(SOP8) 5060 size 	SH8KA7	TB	N+N	30	15*3	4.6*3	7.1	9.1	8.3	10.7	–	–	41*1
	SH8KA4	TB		30	9*3	3*3	16.5	21.4	22.2	28.9	–	–	7.9*1
	SH8KA2	TB		30	8*3	2.8*3	23	28	34	43	–	–	4.1*1
	SH8K12	TB		30	6*3	2	30	42	40	56	45	63	4
	SH8KA1	TB		30	4.5*3	2.7*3	54	69	84	109	–	–	1.6*1
	SH8K11	TB		30	3.5	2	70	98	90	126	100	140	1.9
	SH8KB6	TB1		40	8.5	2	14.9	19.4	18.2	26	–	–	5.0*1
	SH8KB7	TB1		40	13.5	2	6.5	8.4	7.5	10.5	–	–	13*1
	SH8KC6	TB1		60	6.5	2	25	32	33	46	–	–	3.9*1
	SH8KC7	TB1		60	10.5	2	9.5	12.4	12.3	17.2	–	–	10.8*1
	SH8KE7	TB1		100	8	2	16.1	20.9	19.7	29.6	–	–	9.1*1
	SH8KE6	TB1		100	4.5	2	45	58	56	84	–	–	3.3*1
	SH8J66	TB1	P+P	–30	–9	2	13.5	18.5	17.5	23.6	19	24.7	35
	SH8J65	TB1		–30	–7	2	21.5	29	29	39	31	40.8	18
	SH8J62	TB1		–30	–4.5	2	40	56	55	77	60	84	8
	SH8JB5	TB1		–40	–8.5	2	12.4	15.3	15	18.7	–	–	25*1
	SH8JC5	TB1		–60	–7.5	2	25	32	28	35	–	–	23*1
	SH8J31	TB		–60	–4.5	2	50	70	55	80	60	85	40*2
	New SH8JE5	TB1		–100	–4.5	2	70	91	74	96	–	–	25*1
	SH8MA4	TB1	N+P	30	9*3	3.0*3	16.5	21.4	22.2	32.5	–	–	7.9*1
				–30	–8.5*3		23	29.6	32	41.3	–	–	9.8*1
	SH8MA3	TB1		30	7*3	2.8*3	23	28	42	57	–	–	3.7*1
				–30	–6*3		40	50	60	73	–	–	5.2*1
	SH8MA2	TB		30	4.5*3	2.7*3	57	80	88	125	–	–	1.5*1
				–30	–4.5*3		63	82	89	115	–	–	3.4*1
	SH8MB5	TB1		40	8.5	2	14.9	19.4	18.2	26	–	–	5*1
				–40	–8.5		13.9	16.8	16.5	21	–	–	25*1
	New SH8MB4	TB1		40	5	2	42	55	65	91	–	–	1.8*1
				–40	–6		36	46	44	56	–	–	9.0*1
	New SH8MC4	TB1		60	4	2	73	95	106	148	–	–	1.7*1
				–60	–4.5		75	96	84	107	–	–	8.5*1
	SH8M24	TB		45	4.5	2	33	46	41	57	46	64	6.8
				–45	–3.5		45	63	60	84	66	92	13
	SH8MC5	TB1		60	6.5	2	25	32	33	46	–	–	3.9*1
				–60	–7		27	33	29	37	–	–	23*1
	SH8M31	TB		60	4.5	2	46	65	52	73	55	77	7*1
				–60	–4.5		50	70	55	80	60	85	20*1
	New SH8ME5	TB1		100	4.5	2	45	58	56	84	–	–	3.3*1
				–100	–4.5		70	91	74	96	–	–	25*1
	SH8M41	TB		80	3.4	2	90	130	110	150	120	160	6.6
				–80	–2.6		165	240	220	300	230	310	8.2
	SH8M51	TB		100	3	2	120	170	130	180	135	190	8.5
				–100	–2.5		210	290	230	320	240	340	12.5

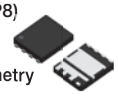
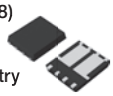
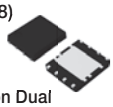
注1：( )内表示ROHM封装。
注2：*1 V_{GS}=4.5V *2 V_{GS}=10V *3 P_W≤1s

<HSOP8封装> (单路)

Package	Application	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A) (T_C=25°C)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=6V Typ	V_{GS}=6V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	Qg (nC) (V_{GS}=4.5V)	Drive Voltage (V)
(HSOP8) 6050 size Single 	Load Switch	RS1E350BN	TB	N	30	80	35	1.2	1.7	–	–	1.8	2.5	95	4.5
		RS1E281BN	TB1		30	80	30	1.7	2.3	–	–	2.3	3.2	50	
		RS1E200BN	TB		30	68	25	2.8	3.9	–	–	3.8	5.3	29	
		RS1E180BN	TB		30	60	25	3.5	4.9	–	–	4.9	6.9	23	
		RS1E240BN	TB		30	40	30	2.3	3.2	–	–	3.3	4.6	35	
		RS1E260AT	TB1	P	–30	–80	40	2.5	3.1	–	–	3.5	4.3	87	
		RS1E220AT	TB1		–30	–76	34	3.3	4.1	–	–	4.6	5.8	65	
		RS1G201AT	TB1		–40	–78	40	4.2	5.2	–	–	5.2	6.5	62	
		RS1L151AT	TB1		–60	–56	40	8.9	11.3	–	–	9.9	12.6	59	
		New RS1P090AT	TB1		–100	–33	40	26	34	–	–	28	36	62	
	DC-DC Converter Switching	RS1E350GN	TB	N	30	80	39	1.48	1.76	–	–	1.92	2.40	32.7	
		RS1E321GN	TB1		30	80	34	1.4	1.9	–	–	1.8	2.9	19.6	
		RS1E301GN	TB1		30	80	33	1.7	2.2	–	–	2.2	3.3	18.5	
		RS1E280GN	TB		30	80	31	2.0	2.6	–	–	2.6	3.8	17.1	
		RS1E240GN	TB		30	72	27	2.6	3.3	–	–	3.3	5.2	11.2	
		RS1E200GN	TB		30	57	25	3.6	4.6	–	–	4.7	7.5	7.8	
		RS1E170GN	TB		30	40	23	5.1	6.7	–	–	6.7	10.3	5.9	
		RS1E150GN	TB		30	40	22	6.7	8.8	–	–	8.8	13.3	4.8	
		RS1E130GN	TB		30	35	22	8.9	11.7	–	–	11.7	17.7	3.9	
		New RS6G120BG	TB1		40	120	104	1.03	1.34	–	–	1.74	2.43	34	
		New RS6G100BG	TB1		40	100	59	2.6	3.4	–	–	4.6	6.5	11.8	
		New RS6L120BG	TB1		60	120	104	2.1	2.7	–	–	3	4.2	25	
		New RS6L090BG	TB1		60	90	73	3.6	4.7	–	–	5.3	7.4	13.6	
		New RS6N120BH	TB1		80	120	104	2.8	3.3	3.5	4.9	–	–	53*	6.0
		New RS6P100BH	TB1		100	100	104	4.5	5.9	5.8	8.7	–	–	45*	
		New RS6P060BH	TB1		100	60	73	8.2	10.6	10.7	16	–	–	25*	
		New RS1P600BH	TB1		100	60	35	6.7	8.8	8.6	12.9	–	–	32*	
		New RS6R060BH	TB1		150	60	104	16.7	21.8	17.9	26.8	–	–	46*	
		New RS6R035BH	TB1		150	35	73	32	41	34	59	–	–	25*	

注1：( )内表示ROHM封装。
注2：*V_{GS}=10V

<HSOP8封装> (双路)

Package	Application	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A) (T_a=25°C)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	Qg (nC) (V_{GS}=4.5V)	Drive Voltage (V)
(HSOP8) 5060 size Asymmetry Dual 	Switching	HP8K24	TB	N+N	30	80*1	31*1	2.3	3	3.2	4.2	17.2	4.5
					30	27*1	22*1	6.7	8.8	9.1	13.3	4.8	
		HP8K22	TB		30	57*1	25*1	3.6	4.6	4.7	7.5	7.8	
					30	27*1	22*1	6.7	8.8	9.1	13.3	4.8	
(HSOP8) 5060 size Symmetry Dual 	Motor	New HP8KB7	TB1	N+N	40	24*1	26*1	6.2	8	8	11.1	13	
		New HP8KB6	TB1		40	24*1	21*1	12.1	15.7	17.8	25	5	
		New HP8KC7	TB1		60	24*1	26*1	8.8	11.5	11.2	15.7	10.8	
		New HP8KC6	TB1		60	23*1	21*1	21	27	29	43	3.9	
		New HP8KE7	TB1		100	24*1	26*1	15.1	19.6	18.6	27.8	10.5	
		New HP8KE6	TB1		100	17*1	21*1	41	54	53	73	3.7	
		HP8MA2	TB1	N+P	30	18*2	7*2	7.5	9.6	11.7	16.5	10.5	
					–30	–15*2	7*2	13.2	17.9	21	29	12.8	
		New HP8MB5	TB1		40	16.5*1	20*1	35	46	57	80	1.8	
					–40	–18.0*1	20*1	34	44	42	55	9	
		New HP8MC5	TB1		60	12*1	20*1	69	99	99	139	1.7	
					–60	–12*1	20*1	74	96	83	107	8.5	
		HP8M31	TB1		60	8.5*2	7*2	46	65	52	73	6.2	
					–60	–8.5*2	7*2	50	70	55	80	15.7	
		New HP8ME5	TB1		100	8.5*1	20*1	148	193	200	300	1.7	
					–100	–8.0*1	20*1	210	273	233	303	10.2	
		HP8M51	TB1		100	4.5*2	7*2	120	170	130	180	8.5	
					–100	–4.5*2	7*2	210	290	230	320	12.5	
(HSOP8) 5060 size Drain Common Dual 	Load Switch	HP8KA1	TB	N+N	30	14*1	3*1	3.5	5	5	7	24	

注1：( )内表示ROHM封装。
注2：*1 T_C=25°C *2 Pw≤1s

功率MOSFET

功率MOSFET系列

Package	Product No. Part No.	Packing code	Polarity (ch)	V_{DSS} (V)	I_D (A) (T_C=25°C)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (mΩ) V_{GS}=10V Typ	V_{GS}=10V Max	V_{GS}=6.0V Typ	V_{GS}=6.0V Max	V_{GS}=4.5V Typ	V_{GS}=4.5V Max	V_{GS}=4.0V Typ	V_{GS}=4.0V Max	Qg (nC) (V_{GS}=10V)
TO-252 〈DPAK〉	New RD3G07BBG	TL1	N	40	70	89	1.75	2.27	–	–	2.6	3.7	–	–	28*2
	New RD3G03BBG	TL1		40	35	50	5	6.5	–	–	7.6	10.6	–	–	9.2*2
	RD3H200SN	TL1		45	20	20	20	28	–	–	25	35	28	40	12*1
	New RD3L07BBG	TL1		60	70	89	3	3.9	–	–	4.1	5.7	–	–	23*2
	New RD3L03BBG	TL1		60	35	50	8.7	11.3	–	–	12.1	16.9	–	–	6.8*2
	RD3L220SN	TL1		60	22	20	18	26	–	–	21	30	23	33	30
	RD3L150SN	TL1		60	15	20	28	40	–	–	33	47	36	51	18
	RD3L080SN	TL1		60	8	15	57	80	–	–	70	98	78	109	9.4
	RD3L050SN	TL1		60	5	15	78	109	–	–	94	131	100	140	8
	New RD3P07BBH	TL1		100	70	89	5.9	7.7	7.5	11.2	–	–	–	–	38
	New RD3P03BBH	TL1		100	35	50	18	23	23	34	–	–	–	–	12.4
	RD3P200SN	TL1		100	20	20	33	46	–	–	–	–	36	50	55
	RD3P175SN	TL1		100	17.5	20	75	105	–	–	80	112	85	119	24
	RD3P100SN	TL1		100	10	20	95	133	–	–	100	140	105	147	18
	RD3P050SN	TL1		100	5	15	135	190	–	–	142	200	145	205	14
	RD3S100CN	TL1		190	10	85	130	182	–	–	–	–	136	190	52
	RD3S075CN	TL1		190	7.5	52	240	336	–	–	–	–	248	347	30
	RD3T100CN	TL1		200	10	85	140	182	–	–	–	–	–	–	25
	RD3T075CN	TL1		200	7.5	52	250	325	–	–	–	–	–	–	15
	RD3T050CN	TL1		200	5	29	540	760	–	–	–	–	–	–	8.3
	RD3U080CN	TL1		250	8	85	225	300	–	–	–	–	–	–	25
	RD3U060CN	TL1		250	6	52	410	530	–	–	–	–	–	–	15
	RD3U040CN	TL1		250	4	29	930	1,300	–	–	–	–	–	–	8.5
	RD3G07BAT	TL1	P	−40	−70	101	5.7	7.1	–	–	6.9	8.7	–	–	105
	RD3G03BAT	TL1		−40	−35	56	15	19.1	–	–	18.5	24	–	–	38
	RD3G01BAT	TL1		−40	−15	25	31	39	–	–	38	49	–	–	19.3
	RD3H160SP	TL1		−45	16	20	35	50	–	–	45	63	50	70	16*1
	RD3H080SP	TL1		−45	−8	15	65	91	–	–	95	133	105	147	9*1
	RD3H045SP	TL1		−45	−4.5	15	112	157	–	–	160	224	185	259	5.6*1
	RD3L07BAT	TL1		−60	−70	101	10.1	12.7	–	–	11.1	14.1	–	–	105
	RD3L03BAT	TL1		−60	−35	56	32	41	–	–	36	46	–	–	37
	RD3L140SP	TL1		−60	−14	20	60	84	–	–	73	103	77	108	27
	RD3L01BAT	TL1		−60	−10	26	65	84	–	–	73	93	–	–	15.2
	New RD3P05BAT	TL1		−100	−50	101	32	41	35	46	–	–	–	–	110
	New RD3P02BAT	TL1		−100	−20	56	89	116	100	130	–	–	–	–	39
	New RD3P01BAT	TL1		−100	−10	25	181	240	210	270	–	–	–	–	19.4
	RD3P130SP	TL1		−100	−13	20	135	200	–	–	150	220	155	230	40
(TO-220FM) 〈TO-220FP〉	RCX700N20	–	N	200	70	83	30.5	42.7	–	–	–	–	–	–	125
	RCX450N20	–		200	45	69	42	55	–	–	–	–	–	–	80
	RCX300N20	–		200	30	61	60	80	–	–	–	–	–	–	60
	RCX200N20	–		200	20	48	100	130	–	–	–	–	–	–	40
	RCX160N20	–		200	16	43	135	180	–	–	–	–	–	–	26
	RCX120N20	–		200	12	40	250	325	–	–	–	–	–	–	15
	RCX081N20	–		200	8	40	470	770	–	–	–	–	–	–	9
	RCX511N25	–		250	51	84	48	65	–	–	–	–	–	–	120
	RCX330N25	–		250	33	69	77	105	–	–	–	–	–	–	80
	RCX220N25	–		250	22	61	105	140	–	–	–	–	–	–	60
	RCX120N25	–		250	12	48	180	235	–	–	–	–	–	–	35
	RCX100N25	–		250	10	43	245	320	–	–	–	–	–	–	26.5
	RCX080N25	–		250	8	35	460	600	–	–	–	–	–	–	15
	RCX051N25	–		250	5	30	970	1,360	–	–	–	–	–	–	9
TO-220AB	New RX3G18BBG	C16	N	40	180	178	1.13	1.47	–	–	1.43	2	–	–	105*2
	New RX3G07BBG	C16		40	70	89	2.3	3	–	–	3.2	4.4	–	–	28*2
	New RX3L18BBG	C16		60	180	178	1.54	2	–	–	1.9	2.66	–	–	77*2
	New RX3L07BBG	C16		60	70	89	3.5	4.6	–	–	4.7	6.5	–	–	23*2
	New RX3P10BBH	C16		100	105	178	2.8	3.7	3.2	4.8	–	–	–	–	135
	New RX3P07CBH	C16		100	70	125	4	5.2	4.8	7.2	–	–	–	–	73
	New RX3P07BBH	C16		100	70	89	6.5	8.4	8	12	–	–	–	–	38
TO-263AB (TO-263AB-3LSHYAD)	New RJ1P10BBH	TL1	N	100	105	189	2.3	3.0	2.8	4.2	–	–	–	–	135
	New RJ1P07CBH	TL1		100	70	135	3.9	5.1	4.7	7.1	–	–	–	–	73
	New RJ1P04BBH	TL1		100	40	89	6.3	8.2	7.8	11.7	–	–	–	–	38
	New RJ1R10BBH	TL1		150	105	189	6.3	8.2	6.7	10	–	–	–	–	130
	New RJ1R04BBH	TL1		150	40	89	20	26	22	32	–	–	–	–	37

注1：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号。
注2：*1 V_{GS}=5V *2 V_{GS}=4.5V

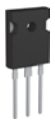
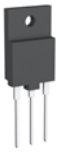
功率MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A) (T_C=25°C)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (mΩ)								Qg (nC) (V_{GS}=10V)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=6.0V		V_{GS}=4.5V		V_{GS}=4.0V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	
TO-263S (LPTS) [SC-83] 〈D2PAK〉 	RSJ650N10	TL	N	100	65	100	6.5	9.1	–	–	–	–	7	9.8	260
	RSJ550N10	TL		100	55	100	12	16.8	–	–	–	–	13.5	18.9	143
	RSJ400N10	TL		100	40	50	19	27	–	–	–	–	21	30	90
	RSJ301N10	TL		100	30	50	33	46	–	–	–	–	36	50	60
	RCJ700N20	TL		200	70	297	30.5	42.7	–	–	–	–	–	–	125
	RCJ451N20	TL		200	45	211	42	55	–	–	–	–	–	–	80
	RCJ300N20	TL		200	30	166	60	80	–	–	–	–	–	–	60
	RCJ200N20	TL		200	20	106	100	130	–	–	–	–	–	–	40
	RCJ160N20	TL		200	16	85	135	180	–	–	–	–	–	–	26
	RCJ120N20	TL		200	12	52	250	325	–	–	–	–	–	–	15
	RCJ081N20	TL		200	8	40	550	770	–	–	–	–	–	–	9
	RCJ510N25	TL		250	51	304	48	65	–	–	–	–	–	–	120
	RCJ331N25	TL		250	33	211	77	105	–	–	–	–	–	–	80
	RCJ220N25	TL		250	22	166	105	140	–	–	–	–	–	–	60
	RCJ120N25	TL		250	12	107	180	235	–	–	–	–	–	–	35
	RCJ100N25	TL		250	10	85	245	320	–	–	–	–	–	–	26.5
	RCJ050N25	TL		250	5	30	970	1,360	–	–	–	–	–	–	9
	RSJ250P10	TL	P	–100	–25	50	45	63	–	–	48	67	50	70	60*1
	RSJ151P10	TL		–100	–15	50	85	120	–	–	95	135	100	140	64

注1：封装采用JEDEC表示。( )内表示ROHM封装。[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。
注2：*1 V_{GS}=5V

功率MOSFET

低噪声型

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS\ (on)}$ (Ω) V_{GS}=10V		Qg (nC) V_{GS}=10V
	Part No.	Packing code					Typ	Max	
(SOP8) 	R6000ENH	TB1	N	600	0.5	2.0	7.300	8.800	4.3
	R6002ENH	TB1		600	1.7	2.0	2.800	3.400	6.5
(SOT-223) 	☆R6004END4	TL1	N	600	4	9.1	0.9	0.98	15
TO-252 〈DPAK〉 	R6011END3	TL1	N	600	11	124	0.340	0.390	32
	R6009END3	TL1		600	9	94	0.500	0.535	23
	R6007END3	TL1		600	7	78	0.570	0.620	20
	R6004END3	TL1		600	4	59	0.900	0.980	15
	R6002END3	TL1		600	1.7	26	2.800	3.400	6.5
	R6511END3	TL1		650	11	124	0.360	0.400	32
	R6509END3	TL1		650	9	94	0.530	0.585	24
	R6507END3	TL1		650	7	78	0.605	0.665	20
	R6504END3	TL1		650	4	58	0.955	1.050	15
	R6502END3	TL1		650	1.7	26	3.050	4.000	6.5
TO-263S (LPTS) [SC-83] 〈D2PAK〉 	R6024ENJ	TL	N	600	24	245	0.150	0.165	70
	R6020ENJ	TL		600	20	231	0.170	0.196	60
	R6015ENJ	TL		600	15	184	0.260	0.290	40
	R6011ENJ	TL		600	11	124	0.340	0.390	32
	R6009ENJ	TL		600	9	94	0.500	0.535	23
	R6007ENJ	TL		600	7	78	0.570	0.620	20
	R6004ENJ	TL		600	4	58	0.900	0.980	15
	R6524ENJ	TL		650	24	245	0.160	0.185	70
	R6520ENJ	TL		650	20	231	0.185	0.205	61
	R6515ENJ	TL		650	15	184	0.280	0.315	40
	R6511ENJ	TL		650	11	124	0.360	0.400	32
	R6509ENJ	TL		650	9	94	0.530	0.585	24
	R6507ENJ	TL		650	7	78	0.605	0.665	20
	R6504ENJ	TL		650	4	58	0.955	1.050	15
(TO-220FM) 〈TO-220FP〉 	R6030ENX	C7 G	N	600	30	86	0.115	0.130	85
	R6024ENX	C7 G		600	24	74	0.150	0.165	70
	R6020ENX	C7 G		600	20	68	0.170	0.196	60
	R6015ENX	C7 G		600	15	60	0.260	0.290	40
	R6011ENX	C7 G		600	11	53	0.340	0.390	32
	R6009ENX	C7 G		600	9	48	0.500	0.535	23
	R6007ENX	C7 G		600	7	46	0.570	0.620	20
	R6004ENX	C7 G		600	4	35	0.900	0.980	15
	R6530ENX	C7 G		650	30	86	0.125	0.140	90
	R6524ENX	C7 G		650	24	74	0.160	0.185	70
	R6520ENX	C7 G		650	20	68	0.185	0.205	61
	R6515ENX	C7 G		650	15	60	0.280	0.315	40
	R6511ENX	C7 G		650	11	53	0.360	0.400	32
	R6509ENX	C7 G		650	9	48	0.530	0.585	24
	R6507ENX	C7 G		650	7	46	0.605	0.665	20
	R6504ENX	C7 G		650	4	35	0.955	1.050	15
TO-247AD (TO-247) 	R6076ENZ4	C13	N	600	76	735	0.038	0.042	260
	R6047ENZ4	C13		600	47	481	0.066	0.072	145
	R6035ENZ4	C13		600	35	379	0.092	0.102	110
	R6030ENZ4	C13		600	30	305	0.115	0.130	85
	R6024ENZ4	C13		600	24	245	0.150	0.165	70
	R6020ENZ4	C13		600	20	231	0.170	0.196	60
	R6576ENZ4	C13		650	76	735	0.040	0.046	260
	R6547ENZ4	C13		650	47	480	0.070	0.080	150
	R6535ENZ4	C13		650	35	379	0.098	0.115	110
	R6530ENZ4	C13		650	30	305	0.125	0.140	90
	R6524ENZ4	C13		650	24	245	0.160	0.185	70
	R6520ENZ4	C13		650	20	231	0.185	0.205	61
(TO-3PF) 	R6035ENZ	C17	N	600	35	120	0.092	0.102	110
	R6030ENZ	C17		600	30	120	0.115	0.130	85
	R6024ENZ	C17		600	24	120	0.150	0.165	70
	R6020ENZ	C17		600	20	120	0.170	0.196	60
	R6015ENZ	C17		600	15	120	0.260	0.290	40
	R6535ENZ	C17		650	35	102	0.098	0.115	110
	R6530ENZ	C17		650	30	86	0.125	0.140	90
	R6524ENZ	C17		650	24	74	0.165	0.185	70
	R6520ENZ	C17		650	20	68	0.185	0.205	61

注：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。 ☆: 开发中

高速开关型

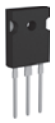
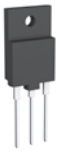
Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (Ω) V_{GS}=10V		Qg (nC) V_{GS}=10V
	Part No.	Packing code					Typ	Max	
TO-252 〈DPAK〉 	R6011KND3	TL1	N	600	11	124	0.340	0.390	22
	R6009KND3	TL1		600	9	94	0.500	0.535	16.5
	R6007KND3	TL1		600	7	78	0.570	0.620	15
	R6006KND3	TL1		600	6	70	0.720	0.830	12
	R6003KND3	TL1		600	3	44	1.300	1.500	8
	New R6014YND3	TL1		600	14	132	0.215*	0.260*	20
	New R6010YND3	TL1		600	10	92	0.324*	0.390*	15
	R6511KND3	TL1		650	11	124	0.360	0.400	22
	R6509KND3	TL1		650	9	94	0.530	0.585	16.5
	R6507KND3	TL1		650	7	78	0.605	0.665	15
	R6504KND3	TL1		650	4	58	0.955	1.050	10
	R8006KND3	TL1		800	6	83	0.750	0.900	22
	R8003KND3	TL1		800	3	48	1.500	1.800	11.5
	R8002KND3	TL1		800	1.6	30	3.500	4.200	7.5
TO-263S (LPTS) [SC-83] 〈D2PAK〉 	R6024KNJ	TL	N	600	24	245	0.150	0.165	46
	R6020KNJ	TL		600	20	231	0.170	0.196	40
	R6015KNJ	TL		600	15	184	0.260	0.290	30
	R6011KNJ	TL		600	11	124	0.340	0.390	22
	R6009KNJ	TL		600	9	94	0.500	0.535	16.5
	R6007KNJ	TL		600	7	78	0.570	0.620	15
	R6004KNJ	TL		600	4	58	0.900	0.980	10
	R6524KNJ	TL		650	24	245	0.160	0.185	46
	R6520KNJ	TL		650	20	231	0.185	0.205	40
	R6515KNJ	TL		650	15	184	0.280	0.315	30
	R6511KNJ	TL		650	11	124	0.360	0.400	22
	R6509KNJ	TL		650	9	94	0.530	0.585	16.5
	R6507KNJ	TL		650	7	78	0.605	0.665	15
	R6504KNJ	TL		650	4	58	0.955	1.050	10
TO-220AB 	☆R6061YNX3	C16	N	600	61	568	0.050*	0.060*	76
	New R6049YNX3	C16		600	49	448	0.068*	0.082*	65
	New R6038YNX3	C16		600	38	348	0.080*	0.096*	50
	New R6027YNX3	C16		600	27	245	0.112*	0.135*	40
	New R6022YNX3	C16		600	22	205	0.137*	0.165*	33
	New R6020YNX3	C16		600	20	182	0.154*	0.185*	28
	New R6014YNX3	C16		600	14	132	0.215*	0.260*	20
	New R6010YNX3	C16		600	10	92	0.324*	0.390*	15
	R6535KNX3	C16		650	35	370	0.098	0.115	72
	R6530KNX3	C16		650	30	307	0.125	0.140	56
	R6524KNX3	C16		650	24	253	0.160	0.185	45
	R6520KNX3	C16		650	20	220	0.185	0.205	40
	R6515KNX3	C16		650	15	161	0.280	0.315	27.5
(TO-220FM) 〈TO-220FP〉 	R6030KNX	C7 G	N	600	30	86	0.115	0.130	56
	R6024KNX	C7 G		600	24	74	0.150	0.165	46
	R6020KNX	C7 G		600	20	68	0.170	0.196	40
	R6015KNX	C7 G		600	15	60	0.260	0.290	30
	R6011KNX	C7 G		600	11	53	0.340	0.390	22
	R6009KNX	C7 G		600	9	48	0.500	0.535	16.5
	R6007KNX	C7 G		600	7	46	0.570	0.620	15
	R6006KNX	C7 G		600	6	40	0.720	0.830	12
	R6004KNX	C7 G		600	4	35	0.900	0.980	10
	New R6061YNX	C7 G		600	26	100	0.050*	0.060*	80
	New R6049YNX	C7 G		600	22	90	0.068*	0.082*	20
	New R6038YNX	C7 G		600	18	81	0.080*	0.096*	50
	New R6027YNX	C7 G		600	14	70	0.112*	0.135*	40
	New R6022YNX	C7 G		600	13	65	0.137*	0.165*	35
	New R6020YNX	C7 G		600	12	62	0.154*	0.185*	30
	New R6014YNX	C7 G		600	9	54	0.215*	0.260*	20
	New R6010YNX	C7 G		600	7	47	0.324*	0.390*	15
	R6530KNX	C7 G		650	30	86	0.125	0.140	56
	R6524KNX	C7 G		650	24	74	0.160	0.185	46
	R6520KNX	C7 G		650	20	68	0.185	0.205	40
	R6515KNX	C7 G		650	15	60	0.280	0.315	30
	R6511KNX	C7 G		650	11	53	0.360	0.400	22
	R6509KNX	C7 G		650	9	48	0.530	0.585	16.5
	R6507KNX	C7 G		650	7	46	0.605	0.665	14.5
	R6504KNX	C7 G		650	4	35	0.955	1.050	10
	R8019KNX	C7 G		800	19	83	0.200	0.240	65
	R8011KNX	C7 G		800	11	65	0.370	0.450	37
	R8009KNX	C7 G		800	9	59	0.500	0.600	27
	R8006KNX	C7 G		800	6	52	0.750	0.900	22
	R8003KNX	C7 G		800	3	48	1.500	1.800	11.5
	R8002KNX	C7 G		800	1.6	28	3.500	4.200	7.5

注：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。 ☆: 开发中

*V_{GS}=12V

功率MOSFET

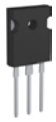
高速开关型

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS\ (on)}$ (Ω) V_{GS}=10V		Qg (nC) V_{GS}=10V
	Part No.	Packing code					Typ	Max	
TO-247AD (TO-247) 	☆R60A4YNZ4	C13	N	600	140	1,250	0.021*	0.025*	180
	New R6086YNZ4	C13		600	86	781	0.036*	0.044*	110
	New R6061YNZ4	C13		600	61	568	0.050*	0.060*	76
	New R6049YNZ4	C13		600	49	448	0.068*	0.082*	65
	New R6038YNZ4	C13		600	38	348	0.080*	0.096*	50
	New R6027YNZ4	C13		600	27	245	0.112*	0.135*	40
	New R6022YNZ4	C13		600	22	205	0.137*	0.165*	33
	New R6020YNZ4	C13		600	20	182	0.154*	0.185*	28
	R6076KNZ4	C13		600	76	735	0.038	0.042	165
	R6047KNZ4	C13		600	47	481	0.066	0.072	100
	R6035KNZ4	C13		600	35	379	0.095	0.102	72
	R6030KNZ4	C13		600	30	305	0.115	0.130	56
	R6024KNZ4	C13		600	24	245	0.150	0.165	46
	R6020KNZ4	C13		600	20	231	0.170	0.196	40
	R6576KNZ4	C13		650	76	735	0.040	0.046	165
	R6547KNZ4	C13		650	47	481	0.070	0.080	100
	R6535KNZ4	C13		650	35	379	0.098	0.115	72
	R6530KNZ4	C13		650	30	305	0.125	0.140	56
	R6524KNZ4	C13		650	24	245	0.160	0.185	45
	R6520KNZ4	C13		650	20	231	0.185	0.205	40
(TO-3PF) 	New R6086YNZ	C17	N	600	33	781	0.036*	0.044*	110
	R6035KNZ	C17		600	35	102	0.092	0.102	72
	R6030KNZ	C17		600	30	86	0.115	0.130	56
	R6024KNZ	C17		600	24	74	0.150	0.165	45
	R6020KNZ	C17		600	20	68	0.170	0.196	40
	R6015KNZ	C17		600	15	60	0.260	0.290	27.5
	R6535KNZ	C17		650	35	102	0.098	0.115	72
	R6530KNZ	C17		650	30	86	0.125	0.140	56
	R6524KNZ	C17		650	24	74	0.160	0.185	45
	R6520KNZ	C17		650	20	68	0.185	0.205	40
	R6515KNZ	C17		650	15	60	0.280	0.315	27.5

注：封装采用JEDEC表示。( )内表示ROHM封装。
*V_{GS}=12V

☆: 开发中

高速trr型〈PrestoMOS™〉

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (Ω) V_{GS}=15V		Qg Typ (nC) V_{GS}=15V	trr Typ (ns)
	Part No.	Packing code					Typ	Max		
(SOT-223) 	New R6002JND4	TL1	N	600	2	6.6	2.5	3.25	7	40
	New R6003JND4	TL1		600	3	7.8	1.65	2.15	8	42
TO-252 〈DPAK〉 	R6009JND3	TL1	N	600	9	125	0.450	0.585	22	65
	R6007JND3	TL1		600	7	96	0.600	0.780	17.5	60
	R6006JND3	TL1		600	6	86	0.720	0.936	15.5	58
	R6004JND3	TL1		600	4	60	1.100	1.430	10.5	45
	New R6013VND3	TL1		600	13	131	0.250	0.300	21*	65
TO-263S (LPTS) [SC-83] 〈D2PAK〉 	R6020JNJ	TL	N	600	20	252	0.180	0.234	45	85
	R6018JNJ	TL		600	18	220	0.220	0.286	42	80
	R6012JNJ	TL		600	12	160	0.300	0.390	28	70
	R6009JNJ	TL		600	9	125	0.450	0.585	22	65
	R6007JNJ	TL		600	7	96	0.600	0.780	17.5	60
	R6006JNJ	TL		600	6	86	0.720	0.936	15.5	58
	R6004JNJ	TL		600	4	60	1.100	1.430	10.5	45
TO-220AB 	☆R6055VNX3	C16	N	600	55	543	0.059	0.071	80*	112
	New R6035VNX3	C16		600	35	348	0.095	0.114	50*	92
	New R6024VNX3	C16		600	24	245	0.127	0.153	38*	80
(TO-220FM) 〈TO-220FP〉 	R6030JNX	C7 G	N	600	30	95	0.110	0.143	74	100
	R6025JNX	C7 G		600	25	85	0.140	0.182	57	90
	R6020JNX	C7 G		600	20	76	0.180	0.234	45	85
	R6018JNX	C7 G		600	18	72	0.220	0.286	42	80
	R6012JNX	C7 G		600	12	60	0.300	0.390	28	70
	R6009JNX	C7 G		600	9	53	0.450	0.585	22	65
	R6007JNX	C7 G		600	7	46	0.600	0.780	17.5	60
	R6006JNX	C7 G		600	6	43	0.720	0.936	15.5	58
	R6004JNX	C7 G		600	4	35	1.100	1.430	10.5	45
	☆R6055VNX	C7 G		600	23	99	0.059	0.071	80*	112
	New R6035VNX	C7 G		600	17	81	0.095	0.114	50*	92
	New R6024VNX	C7 G		600	13	70	0.127	0.153	38*	80
	New R6018VNX	C7 G		600	10	61	0.170	0.204	27*	68
	New R6013VNX	C7 G		600	8	54	0.250	0.300	21*	65
TO-247AD (TO-247) 	R6070JNZ4	C13	N	600	70	770	0.045	0.058	165	135
	R6050JNZ4	C13		600	50	615	0.064	0.083	120	120
	R6042JNZ4	C13		600	42	495	0.080	0.104	100	110
	R6030JNZ4	C13		600	30	370	0.110	0.143	74	100
	R6025JNZ4	C13		600	25	306	0.140	0.182	57	90
	R6020JNZ4	C13		600	20	252	0.180	0.234	45	85
	☆R60A4VNZ4	C13		600	140	1,388	0.022	0.027	195*	167
	New R6077VNZ4	C13		600	77	781	0.042	0.051	108*	125
	New R6055VNZ4	C13		600	55	543	0.059	0.071	80*	112
(TO-3PF) 	R6050JNZ	C17	N	600	50	120	0.064	0.083	120	120
	R6030JNZ	C17		600	30	93	0.110	0.143	74	100
	R6025JNZ	C17		600	25	85	0.140	0.182	57	90
	R6020JNZ	C17		600	20	76	0.180	0.234	45	85
	New R6077VNZ	C17		600	29	113	0.042	0.051	108*	125
	New R6055VNZ	C17		600	23	99	0.059	0.071	80*	112

注：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。 ☆: 开发中

◎ "PrestoMOS™" 是ROHM Co., Ltd.的商标或注册商标。

*V_{GS}=10V

车载用MOSFET

车载用MOSFET

Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS(on)}$ (mΩ)										Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		V_{GS}=5V	V_{DS}=10V	
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max			
DFN1010-3W 1010 size	RV8C010UN	HZG	G2CR	N	20	1	±8	–	–	340	470	400	560	470	650	540	810	–	40	YES
	RV8L002SN	HZG	G2CR	N	60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	–	–	–	–	–	15	YES
	BSS84X	HZG	G2CR	P	−60	−0.23	±20	2,800	5,300	3,500	6,400	–	–	–	–	–	–	–	35	YES
DFN1616-6W 1616 size	☆RV4E034UN	HZG	TCR1	N	30	3.4	±12	–	–	72	97	100	140	–	–	–	–	3.2*2	170	YES
	☆RV4L016SN	HZG	TCR1	N	60	1.6	±20	237	305	290	374	–	–	–	–	–	–	2.0*1	110	YES
	RV4C020ZP	HZG	TCR1	P	−20	−2	±8	–	–	180	260	240	340	320	450	400	560	2	80	YES
	RV4E031RP	HZG	TCR1	P	−30	−3.1	±20	75	105	108	152	–	–	–	–	–	–	4.8	460	YES
SOT-323 (UMT3) [SC-70] 2021 size	BSS138BWA	HZG	T106	N	60	0.38	±20	500	700	600	840	1,000	4,000	–	–	–	–	–	–	YES
	☆BSS138WA	HZG	T106	N	60	0.31	±20	1,700	2,400	2,100	3,000	3,000	12,000	–	–	–	–	–	–	YES
	BSS84WA	HZG	T106	P	−60	−0.21	±20	3,600	5,300	4,300	6,400	–	–	–	–	–	–	–	–	YES
SOT-363 (UMT6) [SC-88] 2021 size	UM6K31N	FHA	TCN	N+N	60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	–	–	–	–	–	15*4	YES
SOT-323T (TUMT3) [SC-113A] 2021 size	RUF025N02	FRA	TL	N	20	2.5	±10	–	–	39	54	49	68	65	91	80	160	5*2	370	YES
	RTF025N03	FRA	TL	N	30	2.5	±12	–	–	48	67	70	98	–	–	–	–	3.7*2	270	YES
	RTF016N05	FRA	TL	N	45	1.6	±12	–	–	140	190	200	280	–	–	–	–	2.3*2	150	YES
	RSF015N06	FRA	TL	N	60	1.5	±20	210	290	240	330	–	–	–	–	–	–	2	110	YES
SOT-363T (TUMT6) [SC-113DA] 2021 size	RUL035N02	FRA	TR	N	20	3.5	±10	–	–	31	43	38	53	50	70	66	93	5.7*2	460	YES
	RTL035N03	FRA	TR	N	30	3.5	±12	–	–	40	56	56	79	–	–	–	–	4.6*2	350	YES
	RTL020P02	FRA	TR	P	−20	−2	±12	–	–	100	135	180	250	–	–	–	–	4.9*2	430	YES
	RRL035P03	FRA	TR	P	−30	−3.5	±20	36	50	52	72	–	–	–	–	–	–	8	800	YES
	RRL025P03	FRA	TR	P	−30	−2.5	±20	55	75	85	115	–	–	–	–	–	–	5.2	480	YES
	RSL020P03	FRA	TR	P	−30	−2	±20	80	120	125	190	–	–	–	–	–	–	3.9	350	YES
SOT-23 (SST3) 2924 size	RUC002N05	HZG	T116	N	50	0.2	±8	–	–	1,600	2,200	1,700	2,400	–	–	2,000	4,000	–	25	YES
	☆BSS670A	HZG	T116	N	60	0.6	±20	500	650	600	820	–	–	–	–	–	–	–	–	YES
	BSS138BKA	HZG	T116	N	60	0.4	±20	500	700	600	840	1,000	4,000	–	–	–	–	–	–	YES
	RK7002BM	HZG	T116	N	60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	–	–	–	–	–	15	YES
	BSS84A	HZG	T116	P	−60	−0.23	±20	2,800	5,300	3,500	6,400	–	–	–	–	–	–	–	–	YES
SOT-346T (TSMT3) [SC-96] 2928 size	RUR040N02	HZG	TL	N	20	4	±10	–	–	25	35	33	46	–	–	55	110	8*2	680	YES
	RTR040N03	HZG	TL	N	30	4	±12	–	–	34	48	47	66	–	–	–	–	5.9*2	475	YES
	RTR025N03	HZG	TL	N	30	2.5	±12	–	–	66	92	95	133	–	–	–	–	3.3*2	220	YES
	RSR025N03	HZG	TL	N	30	2.5	±20	50	70	74	105	–	–	–	–	–	–	2.9	165	YES
	RTR030N05	HZG	TL	N	45	3	±12	–	–	48	67	68	95	–	–	–	–	6.2*2	510	YES
	RSR025N05	HZG	TL	N	45	2.5	±20	70	100	95	150	–	–	–	–	–	–	3.6	260	YES
	RTR025N05	HZG	TL	N	45	2.5	±12	–	–	95	130	125	175	–	–	–	–	3.2*2	250	YES
	RTR020N05	HZG	TL	N	45	2	±12	–	–	130	180	180	250	–	–	–	–	2.9*2	200	YES
	RSR030N06	HZG	TL	N	60	3	±20	60	85	70	100	–	–	–	–	–	–	5	380	YES
	RSR020N06	HZG	TL	N	60	2	±20	120	170	140	195	–	–	–	–	–	–	2.7	180	YES
	RSR010N10	HZG	TL	N	100	1	±20	370	520	400	560	–	–	–	–	–	–	3.5	140*4	YES
	RTR030P02	HZG	TL	P	−20	−3	±12	–	–	55	75	90	125	–	–	–	–	9.3*2	840	YES
	RTR025P02	HZG	TL	P	−20	−2.5	±12	–	–	70	95	115	160	–	–	–	–	7*2	630	YES
	RTR020P02	HZG	TL	P	−20	−2	±12	–	–	100	135	180	250	–	–	–	–	4.9*2	430	YES
	RRR040P03	HZG	TL	P	−30	−4	±20	32	45	45	63	–	–	–	–	–	–	10.5	1,000	YES
	RRR030P03	HZG	TL	P	−30	−3	±20	55	75	85	115	–	–	–	–	–	–	5.2	480	YES
	RSR025P03	HZG	TL	P	−30	−2.5	±20	70	98	100	140	–	–	–	–	–	–	5.4	460	YES
	RSR020P05	HZG	TL	P	−45	−2	±20	130	190	180	260	–	–	–	–	–	–	4.5*2	500	YES
	RSR015P06	HZG	TL	P	−60	−1.5	±20	200	280	240	340	–	–	–	–	–	–	10*1	500	YES
SOT-457T (TSMT6) [SC-95] 2928 size	RUQ050N02	HZG	TR	N	20	5	±10	–	–	22	30	27	38	–	–	40	80	12*2	900	YES
	RTQ045N03	HZG	TR	N	30	4.5	±12	–	–	30	43	42	60	–	–	–	–	7.6*2	540	YES
	RSQ045N03	HZG	TR	N	30	4.5	±20	27	38	36	51	–	–	–	–	–	–	6.8	520	YES
	RSQ035N03	HZG	TR	N	30	3.5	±20	44	62	60	84	–	–	–	–	–	–	5.3	290	YES
	RTQ035N03	HZG	TR	N	30	3.5	±12	–	–	38	54	55	77	–	–	–	–	4.6*2	285	YES
	RSQ020N03	HZG	TR	N	30	2	±20	96	134	148	207	–	–	–	–	–	–	2.2	110	YES
	RVQ040N05	HZG	TR	N	45	4	±21	38	53	47	66	–	–	–	–	–	–	6.3	530	YES
	RTQ020N05	HZG	TR	N	45	2	±12	–	–	140	190	200	280	–	–	–	–	2.3*2	150	YES
	RSQ035N06	HZG	TR	N	60	3.5	±20	50	70	58	82	–	–	–	–	–	–	6.5	430	YES
	RSQ015N06	HZG	TR	N	60	1.5	±20	210	290	240	330	–	–	–	–	–	–	2	110	YES
	RSQ030N08	HZG	TR	N	80	3.0	±20	93	131	100	140	–	–	–	–	–	–	6.5*1	550	YES
	QS6K1	FRA	TR	N+N	30	1	±12	–	–	170	238	260	364	–	–	–	–	1.7*2	77	YES
	QS6K21	FRA	TR	N+N	45	1	±12	–	–	300	420	415	585	–	–	–	–	1.5*2	95	YES
	RTQ035P02	HZG	TR	P	−20	−3.5	±12	–	–	50	65	80	100	–	–	–	–	10.5*2	1,200	YES
	RTQ025P02	HZG	TR	P	−20	−2.5	±12	–	–	72	100	140	190	–	–	–	–	6.4*2	580	YES
	RRQ045P03	HZG	TR	P	−30	−4.5	±20	25	35	34	48	–	–	–	–	–	–	14	1,350	YES
	RSQ035P03	HZG	TR	P	−30	−3.5	±20	45	65	65	90	–	–	–	–	–	–	9.2	780	YES
	RRQ030P03	HZG	TR	P	−30	−3	±20	55	75	85	115	–	–	–	–	–	–	5.2	480	YES
	RSQ025P03	HZG	TR	P	−30	−2.5	±20	80	110	120	165	–	–	–	–	–	–	4.4	320	YES
	RSQ015P10	HZG	TR	P	−100	−1.5	±20	350	470	380	510	–	–	–	–	–	–	17	950*4	YES

注1：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号。
注2：*1 V_{GS}=10V *2 V_{GS}=4.5V *3 V_{GS}=4V *4 V_{DS}=25V

☆: 开发中

车载用MOSFET

Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS(on)}$ (mΩ)										Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		V_{GS}=5V	V_{DS}=10V	
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max			
 (TSMT8) 3028 size	RQ1C075UN	FRA	TR	N	20	7.5	±10	—	—	11	16	14	20	—	—	20	40	18*1	1,400	YES
	QS8K2	FRA	TR	N+N	30	3.5	±12	—	—	38	54	55	77	—	—	—	—	4.6*1	285	YES
	RQ1A070ZP	FRA	TR	P	−12	−7	±10	—	—	8	12	11	16	—	—	19	38	58*1	7,400*3	YES
	RQ1E070RP	FRA	TR		−30	−7	±20	12	17	17	24	—	—	—	—	—	—	26	2,700	YES
	RQ1E050RP	FRA	TR		−30	−5	±20	22	31	32	45	—	—	—	—	—	—	13	1,300	YES
	QS8J4	FRA	TR	P+P	−30	−4	±20	40	56	55	77	—	—	—	—	—	—	8.4	800	YES
	QS8M51	FRA	TR	N+P	100	2	±20	240	325	250	340	—	—	—	—	—	—	4.7	290*2	YES
					−100	−1.5	±20	350	470	380	510	—	—	—	—	—	—	17	950*2	

注1：( )内表示ROHM封装。
注2：*1 V_{GS}=4.5V *2 V_{DS}=25V *3 V_{GS}=6V

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Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS(on)}$ (mΩ)						Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=5V	V_{DS}=10V	
								Typ	Max	Typ	Max	Typ	Max			
 (SOP8) 5060 size	RSS130N03	HZG	TB	N	30	13	±20	5.9	8.3	7.4	10.4	—	—	25	2,000	YES
	RSS100N03	HZG	TB		30	10	±20	9.5	13.3	12.5	17.5	—	—	14	1,070	YES
	RSS095N05	HZG	TB		45	9.5	±20	11	16	14	20	—	—	18.9	1,830	YES
	RSS070N05	HZG	TB		45	7	±20	18	25	23	32	—	—	12	1,000	YES
	RSS065N06	HZG	TB		60	6.5	±20	24	37	28	44	—	—	11	900	YES
	SP8K3	HZG	TB	N+N	30	7	±20	17	24	23	33	—	—	8.4	600	YES
	SP8K2	HZG	TB		30	6	±20	21	30	30	42	—	—	7.2	520	YES
	SP8K24	HZG	TB		45	6	±20	18	25	24	34	—	—	15.4	1,400	YES
	SP8K22	HZG	TB		45	4.5	±20	33	46	41	57	—	—	6.8	550	YES
	SP8K33	HZG	TB		60	5	±20	34	48	38	54	—	—	8	620	YES
	SP8K32	HZG	TB		60	4.5	±20	46	65	52	73	—	—	7	500	YES
	SP8K31	HZG	TB		60	3.5	±20	85	120	100	140	—	—	3.7	250	YES
	SP8K41	HZG	TB		80	3.4	±20	90	130	110	150	120	160	6.6	600	YES
	SP8K52	HZG	TB		100	3	±20	120	170	130	180	—	—	8.5	610*3	YES
	RRS140P03	HZG	TB	P	−30	−14	±20	5	7	6.7	9.4	—	—	80	8,000	YES
	RRS100P03	HZG	TB		−30	−10	±20	9	12.6	12.5	17.5	—	—	39	3,600	YES
	RRS090P03	HZG	TB		−30	−9	±20	11	15.4	15	21	—	—	30	3,000	YES
	RRS050P03	HZG	TB		−30	−5	±20	36	50	52	72	—	—	9.2	850	YES
	RSS070P05	HZG	TB		−45	−7	±20	19	27	25	35	—	—	34	4,100	YES
	RSS060P05	HZG	TB		−45	−6	±20	26	36	35	49	—	—	23	2,700	YES
	SP8J66	HZG	TB	P+P	−30	−9	±20	13.5	18.5	17.5	23.6	—	—	35	3,000	YES
	SP8M4	HZG	TB	N+P	30	9	±20	12	18	16	24	—	—	15	1,190	YES
					−30	−7	±20	20	28	25	35	—	—	25	2,600	YES
	SP8M5	HZG	TB		30	6	±20	21	30	30	42	—	—	7.2	520	YES
					−30	−7	±20	20	28	25	35	—	—	25	2,600	
	SP8M3	HZG	TB		30	5	±20	36	51	52	73	—	—	3.9	230	YES
					−30	−4.5	±20	40	56	57	80	—	—	8.5	850	YES
	SP8M6	HZG	TB		30	5	±20	36	51	52	73	—	—	3.9	230	YES
					−30	−3.5	±20	65	90	100	140	—	—	5.5	490	YES
	SP8M21	HZG	TB		45	6	±20	18	25	24	34	—	—	15.4	1,400	YES
					−45	−4	±20	33	46	43	60	—	—	20	2,400	
	SP8M24	HZG	TB		45	4.5	±20	33	46	41	57	—	—	6.8	550	YES
					−45	−3.5	±20	45	63	60	84	—	—	13	1,700	
	SP8M31	HZG	TB		60	4.5	±20	46	65	52	73	55	77	7	500	YES
					−60	−4.5	±20	50	70	55	80	60	85	40	2,500	
	SP8M41	HZG	TB		80	3.4	±20	90	130	110	150	—	—	6.6	600	YES
					−80	−2.6	±20	165	240	220	300	—	—	8.2	1,000	
	SP8M51	HZG	TB		100	3	±20	120	170	130	180	—	—	8.5	610*3	YES
					−100	−2.5	±20	210	290	230	320	—	—	12.5	1,550*3	

注1：( )内表示ROHM封装。
注2：*1 V_{GS}=10V *2 V_{GS}=4V *3 V_{DS}=25V

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Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS(on)}$ (mΩ)				Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=10V	V_{DS}=10V	
								Typ	Max	Typ	Max			
 TO-252 〈DPAK〉	RD3H200SN	FRA	TL	N	45	20	±20	20	28	25	35	12*3	950	YES
	RD3L220SN	FRA	TL		60	22	±20	18	26	21	30	30	1,500	YES
	RD3L150SN	FRA	TL		60	15	±20	28	40	33	47	18	930	YES
	RD3L080SN	FRA	TL		60	8	±20	57	80	70	98	9.4	380	YES
	RD3L050SN	FRA	TL		60	5	±20	78	109	94	131	8	290	YES
	RD3P200SN	FRA	TL		100	20	±20	33	46	36*2	50*2	55	2,100*1	YES
	RD3P175SN	FRA	TL		100	17.5	±20	75	105	80	112	24	950*1	YES
	RD3P100SN	FRA	TL		100	10	±20	95	133	100	140	18	700*1	YES
	RD3P050SN	FRA	TL		100	5	±20	135	190	142	200	14	530*1	YES
	RD3S100AA	FRA	TL		190	10	±20	130	182	136*2	190*2	52	2,000	YES
	RD3U080AA	FRA	TL		250	8	±30	225	300	—	—	25	1,440*1	YES
	RD3U041AA	FRA	TL		250	4	±30	930	1,300	—	—	8.5	350*1	YES
	R5205PND3	FRA	TL		525	5	±25	1,300	1,600	—	—	10.8	320*1	YES
	R6006PND3	FRA	TL		600	6	±30	900	1,200	—	—	15	460*1	YES
	R6004PND3	FRA	TL		600	4	±25	1,400	1,800	—	—	11	280*1	YES
	R8007AND3	FRA	TL		800	7	±30	1,200	1,600	—	—	28	850	YES
	R8002CND3	FRA	TL		800	2	±30	3,300	4,300	—	—	12.1	240*1	YES
	R8001CND3	FRA	TL		800	1	±30	6,700	8,700	—	—	7.2	60*1	YES
	RD3H160SP	FRA	TL	P	−45	−16	±20	35	50	45	63	16*3	2,000	YES
	RD3H080SP	FRA	TL		−45	−8	±20	65	91	95	133	9*3	1,000	YES
	RD3H045SP	FRA	TL		−45	−4.5	±20	110	155	160	225	12*3	550	YES
	RD3L140SP	FRA	TL		−60	−14	±20	60	84	73	103	27	1,900	YES
	RD3P130SP	FRA	TL		−100	−13	±20	135	200	150	220	40	2,400*1	YES
 TO-263S (LPTS) [SC-83] 〈D2PAK〉	RSJ451N04	FRG	TL	N	40	45	±20	9.5	13.5	—	—	43	2,400*1	YES
	RSJ400N06	FRG	TL		60	40	±20	11	16	—	—	52	2,400	YES
	RSJ400N10	FRG	TL		100	40	±20	19	27	21*2	30*2	90	3,600*1	YES
	RSJ301N10	FRG	TL		100	30	±20	33	46	36*2	50*2	60	2,100*1	YES
	RJ1U330AA	FRG	TL		250	33	±30	77	105	—	—	80	4,500*1	YES
	R6020PNJ	FRA	TL		600	20	±30	190	250	—	—	65	2,040*1	YES
	R8008ANJ	FRG	TL		800	8	±30	790	1,030	—	—	38	1,100*1	YES
	R8005ANJ	FRG	TL		800	5	±30	1,600	2,100	—	—	20	500*1	YES
	R8002ANJ	FRG	TL		800	2	±30	3,300	4,300	—	—	13	250*1	YES
	RSJ250P10	FRG	TL	P	−100	−25	±20	45	63	48	67	60*3	8,000*1	YES

注1：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。
注2：*1 V_{DS}=25V *2 V_{GS}=4V *3 V_{GS}=5V

双极晶体管

一般放大用 双极晶体管(扁平引线型)一览表

Package / Polarity / Application	SOT-723 (VMT3) [SC-105AA] 1212 size *1 PD=0.15W		SOT-416FL (EMT3F) [SC-89] 1616 size *1 PD=0.15W		SOT-323FL (UMT3F) [SC-85] 2021 size *1 PD=0.2W		VCEO (V)	IC (A)	hFE*2
	PNP	NPN	PNP	NPN	PNP	NPN			
General Purpose Amplification	2SAR522M	2SCR522M	2SAR522EB	2SCR522EB	2SAR522UB	2SCR522UB	20	0.2	120 to 560
	2SAR523M	2SCR523M	2SAR523EB	2SCR523EB	2SAR523UB	2SCR523UB	50	0.1	120 to 560
	2SA2029	2SC5658	2SA1774EB	2SC4617EB	2SA1576UB	2SC4081UB	50	0.15	120 to 390
Low VCE (sat)	2SA2030	2SC5663					12	0.5	270 to 680
		2SD2696					30	0.4	270 to 680
Driver			2SAR502EB	2SCR502EB	2SAR502UB	2SCR502UB	30	0.5	200 to 500

注1：*1 为安装于推荐焊盘时。
注2：*2 关于hFE，请参照规格说明书。
注3：PNP型的 (—) 符号省略。
注4：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

一般放大用 双极晶体管(扁平引线型)

Package	Application	Product No. Part No.	Grade Code General	Grade Code Automotive	Packing code	hFE*2 Code			Polarity (ch)	PD*1 (W)	VCEO (V)	IC (A)	hFE*2	Automotive Grade AEC-Q101
SOT-723 (VMT3) [SC-105AA] 1212 size	General Purpose Amplification	2SAR522M	*	—	T2L				PNP	0.15	−20	−0.2	120 to 560	—
		2SAR523M		—	T2L					0.15	−50	−0.1	120 to 560	—
		2SA2029		FHA	T2L	Q	R			0.15	−50	−0.15	120 to 390	YES
	Low VCE (sat)	2SA2030		—	T2L					0.15	−12	−0.5	270 to 680	—
	General Purpose Amplification	2SCR522M		—	T2L				NPN	0.15	20	0.2	120 to 560	—
		2SCR523M		—	T2L					0.15	50	0.1	120 to 560	—
		2SC5658		FHA	T2L	Q	R			0.15	50	0.15	120 to 390	YES
	Low VCE (sat)	2SC5663		—	T2L					0.15	12	0.5	270 to 680	—
		2SD2696		—	T2L					0.15	30	0.4	270 to 680	—
SOT-416FL (EMT3F) [SC-89] 1616 size	General Purpose Amplification	2SAR522EB	*	—	TL				PNP	0.15	−20	−0.2	120 to 560	—
		2SAR523EB		—	TL					0.15	−50	−0.1	120 to 560	—
		2SA1774EB		—	TL	Q	R			0.15	−50	−0.15	120 to 390	—
	Driver	2SAR502EB		—	TL					0.15	−30	−0.5	200 to 500	—
	General Purpose Amplification	2SCR522EB		—	TL				NPN	0.15	20	0.2	120 to 560	—
		2SCR523EB		—	TL					0.15	50	0.1	120 to 560	—
		2SC4617EB		—	TL	Q	R			0.15	50	0.15	120 to 390	—
	Driver	2SCR502EB		—	TL					0.15	30	0.5	200 to 500	—
SOT-323FL (UMT3F) [SC-85] 2021 size	General Purpose Amplification	2SAR522UB	*	—	TL				PNP	0.2	−20	−0.2	120 to 560	—
		2SAR523UB		—	TL					0.2	−50	−0.1	120 to 560	—
		2SA1576UB		—	TL	Q	R			0.2	−50	−0.15	120 to 390	—
	Driver	2SAR502UB		—	TL					0.2	−30	−0.5	200 to 500	—
	General Purpose Amplification	2SCR522UB		—	TL				NPN	0.2	20	0.2	120 to 560	—
		2SCR523UB		—	TL					0.2	50	0.1	120 to 560	—
		2SC4081UB		—	TL	Q	R			0.2	50	0.15	120 to 390	—
	Driver	2SCR502UB		—	TL					0.2	30	0.5	200 to 500	—

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的hFE表示N：56～120，P：82～180，Q：120～270，R：180～390，S：270～560。详情请参考规格书等。
注4：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

一般放大用 双极晶体管(鸥翼引线型)一览表

Package / Polarity / Application	SOT-416 (EMT3) [SC-75A] 1616 size *1 PD=0.15W		SOT-323 (UMT3) [SC-70] 2021 size *1 PD=0.2W		SOT-346 (SMT3) [SC-59] 2928 size *1 PD=0.2W		SOT-23 (SST3) 2924 size *1 PD=0.2W		VCEO (V)	IC (A)	hFE*2
	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
General Purpose Amplification	New 2SA1774E3	New 2SC4617E3	2SA1576U3	2SC4081U3	2SA1037AK	2SC2412K			50	0.15	120 to 390
Low VCE (sat)	New 2SA2018E3	New 2SC5585E3			2SA2119K				12	0.5	270 to 680
			2SB1689	2SD2652					12	1.5	270 to 680
					2SB1690K	2SD2653K			12	2	270 to 680
						2SD1757K			15	0.5	120 to 560
					2SB1590K				15	1	120 to 390
						2SD2444K			15	1	180 to 390
			2SB1694	2SD2656					30	1	270 to 680
					2SB1695K	2SD2657K			30	1.5	270 to 680
Driver	New 2SAR502E3	New 2SCR502E3	2SAR502U3	2SCR502U3					30	0.5	200 to 500
			2SA1577	2SC4097	2SA1036K	2SC2411K			32	0.5	120 to 390
					2SB1197K	2SD1781K			32	0.8	120 to 390
				2SD1949		2SD1484K			50	0.5	120 to 390
					2SB1198K	2SD1782K			80	0.5	120 to 390
High Speed Switching			2SA2088U3	2SC5876U3					60	0.5	120 to 270 120 to 390
High Voltage			2SA1579U3	2SC4102U3	2SA1514K	2SC3906K	2SARA41C	2SCRC41C	120	0.05	180 to 560
						2SC4061K			300	0.1	56 to 120

注1：*1 为安装于推荐焊盘时。
注2：*2 关于hFE，请参照规格说明书。
注3：PNP型的 (—) 符号省略。
注4：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

双极晶体管

一般放大用 双极晶体管(鸥翼引线型)

Package	Application	Product No. Part No.	Grade Code General	Grade Code Automotive	Packing code	h_{FE}*2 Code			Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	Automotive Grade AEC-Q101
SOT-416 (EMT3) [SC-75A] 1616 size	General Purpose Amplification	New 2SA1774E3	*	HZG	TL	Q	R		PNP	0.15	−50	−0.15	120 to 390	YES
	Low $V_{CE\ (sat)}$	New 2SA2018E3		HZG	TL					0.15	−12	−0.5	270 to 680	YES
	Driver	New 2SAR502E3		HZG	TL					0.15	−30	−0.5	200 to 500	YES
	General Purpose Amplification	New 2SC4617E3		HZG	TL	Q	R		NPN	0.15	50	0.15	120 to 390	YES
	Low $V_{CE\ (sat)}$	New 2SC5585E3		–	TL					0.15	12	0.5	270 to 680	–
	Driver	New 2SCR502E3		HZG	TL					0.15	30	0.5	200 to 500	YES
SOT-323 (UMT3) [SC-70] 2021 size	General Purpose Amplification	2SA1576U3		HZG	T106	Q	R		PNP	0.2	−50	−0.15	120 to 390	YES
	Low $V_{CE\ (sat)}$	2SB1689		–	T106					0.2	−12	−1.5	270 to 680	–
		2SB1694		–	T106					0.2	−30	−1	270 to 680	–
	Driver	2SAR502U3		HZG	T106					0.2	−30	−0.5	200 to 500	YES
		2SA1577		–	T106	Q	R			0.2	−32	−0.5	120 to 390	–
	High Speed Switching	2SA2088U3		HZG	T106	Q				0.2	−60	−0.5	120 to 270	YES
	High Voltage	2SA1579U3		HZG	T106	R	S			0.2	−120	−0.05	180 to 560	YES
	General Purpose Amplification	2SC4081U3		HZG	T106	Q	R		NPN	0.2	50	0.15	120 to 390	YES
	Low $V_{CE\ (sat)}$	2SD2652		–	T106					0.2	12	1.5	270 to 680	–
		2SD2656		–	T106					0.2	30	1	270 to 680	–
	Driver	2SCR502U3		HZG	T106					0.2	30	0.5	200 to 500	YES
		2SC4097		–	T106	Q	R			0.2	32	0.5	120 to 390	–
		2SD1949		–	T106	Q	R			0.2	50	0.5	120 to 390	–
	High speed Switching	2SC5876U3		HZG	T106	Q	R			0.2	60	0.5	120 to 390	YES
	High Voltage	2SC4102U3		HZG	T106	R	S			0.2	120	0.05	180 to 560	YES
SOT-346 (SMT3) [SC-59] 2928 size	General Purpose Amplification	2SA1037AK		–	T146	Q	R		PNP	0.2	−50	−0.15	120 to 390	–
	Low $V_{CE\ (sat)}$	2SA2119K		–	T146					0.2	−12	−0.5	270 to 680	–
		2SB1690K		–	T146					0.2	−12	−2	270 to 680	–
		2SB1590K		–	T146	Q				0.2	−15	−1	120 to 390	–
		2SB1695K		–	T146					0.2	−30	−1.5	270 to 680	–
	Driver	2SA1036K		–	T146	Q	R			0.2	−32	−0.5	120 to 390	–
		2SB1197K		–	T146	Q	R			0.2	−32	−0.8	120 to 390	–
		2SB1198K		–	T146	Q	R			0.2	−80	−0.5	120 to 390	–
	High Voltage	2SA1514K		–	T146	R	S			0.2	−120	−0.05	180 to 560	–
	General Purpose Amplification	2SC2412K	*	–	T146	Q	R		NPN	0.2	50	0.15	120 to 390	–
	Low $V_{CE\ (sat)}$	2SD2653K		–	T146					0.2	12	2	270 to 680	–
		2SD1757K		–	T146	Q	R	S		0.2	15	0.5	120 to 560	–
		2SD2444K		–	T146	R				0.2	15	1	180 to 390	–
		2SD2657K		–	T146					0.2	30	1.5	270 to 680	–
	Driver	2SC2411K		–	T146	Q	R			0.2	32	0.5	120 to 390	–
		2SD1781K		–	T146	Q	R			0.2	32	0.8	120 to 390	–
		2SD1484K		–	T146	Q	R			0.2	50	0.5	120 to 390	–
		2SD1782K		–	T146	Q	R			0.2	80	0.5	120 to 390	–
	High Voltage	2SC3906K		–	T146	R	S			0.2	120	0.05	180 to 560	–
		2SC4061K		–	T146	N				0.2	300	0.1	56 to 120	–
SOT-23 (SST3) 2924 size	High Voltage	2SARA41C	*	HZG	T116	R	S		PNP	0.2	−120	−0.05	180 to 560	YES
		2SCRC41C		HZG	T116	R	S		NPN	0.2	120	0.05	180 to 560	YES

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的h_{FE}表示N：56～120，P：82～180，Q：120～270，R：180～390，S：270～560。详情请参考规格书等。
注4：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

双极晶体管(日本以外型号)一览表

Package / Polarity / Application	SOT-323 (UMT3) [SC-70] 2021 size *1 PD=0.15W		SOT-23 (SST3) 2924 size *1 PD=0.2W		VCEO (V)	IC (A)	hFE*2
	PNP	NPN	PNP	NPN			
General Purpose Amplification	BC858BW	BC848BW	BC858B	BC848B	30	0.1	200 to 450
		New BC847BU3		BC847B	45	0.1	200 to 450
	New BC857BU3		BC857B		45	0.1	210 to 480
			New BC857C	New BC847C	45	0.1	420 to 800
				New BC846B	65	0.12	200 to 450
			BC856B		65	0.1	220 to 475
			BSS63A	BSS64A	100	0.1	30 or more
Driver			BSS5130A	BSS4130A	30	1	270 to 680
			BC807-16	BC817-16	45	0.8	100 to 250
			BC807-25	BC817-25	45	0.8	160 to 400
			BC807-40	BC817-40	45	0.8	250 to 600
			BCX17	BCX19	45	0.5	100 to 600
			SSTA56	SSTA06	80	0.5	100 or more
Switching	UMT3906	UMT3904	SST3906	SST3904	40	0.2	100 to 300
	UMT4403U3	UMT4401U3	SST4403	SST4401	40	0.6	100 to 300
		UM2222AU3		SST2222A	40	0.6	100 to 300
	UMT2907A		SST2907A		60	0.6	100 to 300
Darlington*3				SSTA28	80 (VCES)	0.3	10,000 or more

注1：*1 为安装于推荐焊盘时。
注2：*2 关于hFE，请参照规格说明书。
注3：*3 关于内部电路，请参照规格说明书。
注4：PNP型的(−)符号省略。
注5：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

双极晶体管(日本以外型号)

Package	Application	Product No. Part No.	Grade Code General	Grade Code Automotive	Packing code	Polarity (ch)	PD*1 (W)	VCEO (V)	IC (A)	hFE*2	Automotive Grade AEC-Q101
SOT-323 (UMT3) [SC-70] 2021 size	General Purpose Amplification	BC858BW	*	–	T106	PNP	0.2	−30	−0.1	200 to 450	–
		New BC857BU3		HZG	T106		0.2	−45	−0.1	210 to 480	YES
	Switching	UMT3906		–	T106		0.2	−40	−0.6	100 to 300	–
		UMT4403U3		HZG	T106		0.2	−40	−0.6	100 to 300	YES
		UMT2907A		–	T106		0.2	−60	−0.6	100 to 300	–
	General Purpose Amplification	BC848BW		–	T106	NPN	0.2	30	0.1	200 to 450	–
		New BC847BU3		HZG	T106		0.2	45	0.1	200 to 450	YES
	Switching	UMT3904		–	T106		0.2	40	0.2	100 to 300	–
		UMT4401U3		HZG	T106		0.2	40	0.6	100 to 300	YES
		UM2222AU3		HZG	T106		0.2	40	0.6	100 to 300	YES
SOT-23 (SST3) 2924 size	General Purpose Amplification	BC858B		HZG	T116	PNP	0.2	−30	−0.1	200 to 450	YES
		BC857B		HZG	T116		0.2	−45	−0.1	200 to 480	YES
		New BC857C		HZG	T116		0.2	−45	−0.15	420 to 800	YES
		BC856B		HZG	T116		0.2	−65	−0.1	220 to 475	YES
		BSS63A		HZG	T116		0.2	−100	−0.1	30 or more	YES
	Driver	BSS5130A		HZG	T116		0.2	−30	−1	270 to 680	YES
		BCX17		HZG	T116		0.2	−45	−0.5	100 to 600	YES
		BC807-16		HZG	T116		0.2	−45	−0.8	100 to 250	YES
		BC807-25		HZG	T116		0.2	−45	−0.8	160 to 400	YES
		BC807-40		HZG	T116		0.2	−45	−0.8	250 to 600	YES
		SSTA56		HZG	T116		0.2	−80	−0.5	100 or more	YES
	Switching	SST4403		HZG	T116		0.2	−40	−0.6	100 to 300	YES
		SST2907A		HZG	T116		0.2	−60	−0.6	100 to 300	YES
		SST3906		HZG	T116		0.2	−40	−0.2	100 to 300	YES
	General Purpose Amplification	BC848B		HZG	T116	NPN	0.2	30	0.1	200 to 450	YES
		BC847B		HZG	T116		0.2	45	0.1	200 to 450	YES
		New BC847C		HZG	T116		0.2	45	0.1	420 to 800	YES
		New BC846B		HZG	T116		0.2	45	0.12	200 to 450	YES
		BSS64A		HZG	T116		0.2	100	0.1	30 or more	YES
	Driver	BSS4130A		HZG	T116		0.2	30	1	270 to 680	YES
		BCX19		HZG	T116		0.2	45	0.5	100 to 600	YES
		BC817-16		HZG	T116		0.2	45	0.8	100 to 250	YES
		BC817-25		HZG	T116		0.2	45	0.8	160 to 400	YES
		BC817-40		HZG	T116		0.2	45	0.8	250 to 600	YES
		SSTA06		HZG	T116		0.2	80	0.5	100 or more	YES
	Switching	SST3904		HZG	T116		0.2	40	0.2	100 to 300	YES
		SST4401		HZG	T116		0.2	40	0.6	100 to 300	YES
		SST2222A		HZG	T116		0.2	40	0.6	100 to 300	YES
	Darlington*3	SSTA28		–	T116		0.2	80 (VCES)	0.3	10,000 or more	–

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 关于hFE，请参照规格说明书。
注4：*3 关于内部电路，请参照规格说明书。
注5：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

双极晶体管

高h_{FE}、静噪、达林顿 双极晶体管一览表

Application \ Package	SOT-723 (VMT3) [SC-105AA] 1212 size		SOT-416 (EMT3) [SC-75A] 1616 size		SOT-323 (UMT3) [SC-70] 2021 size		SOT-346 (SMT3) [SC-59] 2928 size		V_{CEO} (V)	I_C (A)	h_{FE}*2
	 *1 P_D=0.15W		 *1 P_D=0.15W		 *1 P_D=0.2W		 *1 P_D=0.2W				
	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
High h_{FE} · Muting								2SD2704K	25 (V_{EBO})	0.3	820 to 2,700
								2SD2114K	20	0.5	820 to 2,700
		2SD2707		2SD2654		2SD2351		2SD2226K	50	0.15	820 to 2,700
Darlington*3								2SD2142K	30	0.3	5,000 or more
							2SB852K	2SD1383K	32 (V_{CES})	0.3	5,000 or more

注1：*1 为安装于推荐焊盘时。
注2：*2 关于h_{FE}，请参照规格说明书。
注3：*3 关于内部电路，请参照规格说明书。
注4：PNP型的(−)符号省略。
注5：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

高h_{FE}、静噪、达林顿 双极晶体管

Package	Application	Product No. Part No.	Grade Code General	Grade Code Automotive	Packing code	h_{FE}*2 Code		Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	
 SOT-723 (VMT3) [SC-105AA] 1212 size	High h_{FE}· Muting	2SD2707	*	–	T2L	V	W	NPN	0.15	50	0.15	820 to 2,700	W: Not Recommended
 SOT-416 (EMT3) [SC-75A] 1616 size	High h_{FE}· Muting	2SD2654	*	–	TL	V	W	NPN	0.15	50	0.15	820 to 2,700	
 SOT-323 (UMT3) [SC-70] 2021 size	High h_{FE}· Muting	2SD2351	*	–	T106	V	W	NPN	0.2	50	0.15	820 to 2700	
 SOT-346 (SMT3) [SC-59] 2928 size	Darlington*3	2SB852K	*	–	T146	B		PNP	0.2	−32 (V_{CES})	−0.3	5,000 or more	
	High h_{FE}· Muting	2SD2704K		–	T146			NPN	0.2	25 (V_{EBO})	0.3	820 to 2,700	
		2SD2114K		–	T146	V	W		0.2	20	0.5	820 to 2,700	
		2SD2226K		–	T146	V	W		0.2	50	0.15	820 to 2,700	
	Darlington*3	2SD2142K		–	T146				0.2	30	0.3	5,000 or more	
		2SD1383K		–	T146	B			0.2	32 (V_{CES})	0.3	5,000 or more	

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的h_{FE}表示B：5,000以上，V：820～1,800，W：1,200～2,700。详情请参考规格书等。
注4：*3 关于内部电路，请参照规格说明书。
注5：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

低饱和/驱动器用 双极晶体管一览表

Package / Polarity / Application	SOT-323T/SOT-363T (TUMT3/TUMT6) [SC-113A/SC-113DA] 2021 size		SOT-346T/SOT-457T (TSMT3/TSMT6) [SC-96/SC-95] 2928 size		V_{CEO} (V)	I_C (A)	h_{FE}*2
	 *1 P_D=0.4W		 *1 P_D=0.5W				
	PNP	NPN	PNP	NPN			
Low $V_{CE(sat)}$	2SB1732	2SD2702	2SB1709	2SD2674	12	1.5	270 to 680
	2SB1730	2SD2700	2SB1690	2SD2653	12	2	270 to 680
			2SB1705	2SD2670	12	3	270 to 680
			2SB1707	2SD2672	12	4	270 to 680
			QST2*3	QSX1*3	12	6	270 to 680
	2SB1733	2SD2703	2SB1710	2SD2675	30	1	270 to 680
	2SB1731	2SD2701	2SB1695	2SD2657	30	1.5	270 to 680
			2SB1706	2SD2671	30	2	270 to 680
			2SB1708	2SD2673	30	3	270 to 680
			QST3*3	QSX2*3	30	5	270 to 680
Driver			2SAR512R	2SCR512R	30	2	200 to 500
			2SAR513R	2SCR513R	50	1	180 to 450
			2SAR553R	2SCR553R	50	2	180 to 450
			2SAR543R	2SCR543R	50	3	180 to 450
			2SAR514R	2SCR514R	80	0.7	120 to 390
			2SAR554R	2SCR554R	80	1.5	120 to 390
			2SAR544R	2SCR544R	80	2.5	120 to 390
High Speed Switching			2SA2094	2SC5866	60	2	120 to 270 120 to 390
High Voltage			2SAR340Q*3	2SCR341Q*3	400	0.1	82 to 270

注1：*1 为安装于推荐焊盘时。
注2：*2 关于h_{FE},请参照规格说明书。
注3：*3 关于6pin封装(TSMT6/TUMT6)的内部电路，请参照规格说明书。
注4：PNP型的(−)符号省略。
注5：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

双极晶体管

低饱和/驱动器用 双极晶体管

Package	Application	Product No.						Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h_{FE}*2 Code							
			General	Automotive									
SOT-323T (TUMT3) [SC-113A] 2021 size	Low $V_{CE\ (sat)}$	2SB1732	*	–	TL			PNP	0.4	–12	–1.5	270 to 680	–
		2SB1730		–	TL				0.4	–12	–2	270 to 680	–
		2SB1733		–	TL				0.4	–30	–1	270 to 680	–
		2SB1731		–	TL				0.4	–30	–1.5	270 to 680	–
		2SD2702		–	TL			NPN	0.4	12	1.5	270 to 680	–
		2SD2700		–	TL				0.4	12	2	270 to 680	–
		2SD2703		–	TL				0.4	30	1	270 to 680	–
		2SD2701		–	TL				0.4	30	1.5	270 to 680	–
SOT-346T (TSMT3) [SC-96] 2928 size	Low $V_{CE\ (sat)}$	2SB1709	*	–	TL			PNP	0.5	–12	–1.5	270 to 680	–
		2SB1690		–	TL				0.5	–12	–2	270 to 680	–
		2SB1705		–	TL				0.5	–12	–3	270 to 680	–
		2SB1707		–	TL				0.5	–12	–4	270 to 680	–
		2SB1710		–	TL				0.5	–30	–1	270 to 680	–
		2SB1695		–	TL				0.5	–30	–1.5	270 to 680	–
		2SB1706		–	TL				0.5	–30	–2	270 to 680	–
		2SB1708		–	TL				0.5	–30	–3	270 to 680	–
	Driver	2SAR512R		HZG	TL				0.5	–30	–2	200 to 500	YES
		2SAR513R		HZG	TL				0.5	–50	–1	180 to 450	YES
		2SAR553R		HZG	TL				0.5	–50	–2	180 to 450	YES
		2SAR543R		–	TL				0.5	–50	–3	180 to 450	–
		2SAR514R		HZG	TL				0.5	–80	–0.7	120 to 390	YES
		2SAR554R		–	TL				0.5	–80	–1.5	120 to 390	–
		2SAR544R		–	TL				0.5	–80	–2.5	120 to 390	–
	High Speed Switching	2SA2094		–	TL	Q			0.5	–60	–2	120 to 270	–
	Low $V_{CE\ (sat)}$	2SD2674		–	TL			NPN	0.5	12	1.5	270 to 680	–
		2SD2653		–	TL				0.5	12	2	270 to 680	–
		2SD2670		–	TL				0.5	12	3	270 to 680	–
		2SD2672		–	TL				0.5	12	4	270 to 680	–
		2SD2675		–	TL				0.5	30	1	270 to 680	–
		2SD2657		–	TL				0.5	30	1.5	270 to 680	–
		2SD2671		–	TL				0.5	30	2	270 to 680	–
		2SD2673		–	TL				0.5	30	3	270 to 680	–
	Driver	2SCR512R		HZG	TL				0.5	30	2	200 to 500	YES
		2SCR513R		HZG	TL				0.5	50	1	180 to 450	YES
		2SCR553R		HZG	TL				0.5	50	2	180 to 450	YES
		2SCR543R		–	TL				0.5	50	3	180 to 450	–
		2SCR514R		HZG	TL				0.5	80	0.7	120 to 390	YES
		2SCR554R		–	TL				0.5	80	1.5	120 to 390	–
		2SCR544R		–	TL				0.5	80	2.5	120 to 390	–
	High Speed Switching	2SC5866		–	TL	Q	R		0.5	60	2	120 to 390	–
SOT-457T (TSMT6) [SC-95] 2928 size	Low $V_{CE\ (sat)}$	QST2*3	*	–	TR			PNP	0.5	–12	–6	270 to 680	–
		QST3*3		–	TR				0.5	–30	–5	270 to 680	–
	High Voltage	2SAR340Q*3		–	TR	P	Q		0.5	–400	–0.1	82 to 270	–
	Low $V_{CE\ (sat)}$	QSX1*3		–	TR			NPN	0.5	12	6	270 to 680	–
		QSX2*3		–	TR				0.5	30	5	270 to 680	–
	High Voltage	2SCR341Q*3		–	TR	P	Q		0.5	400	0.1	82 to 270	–

注1：* 一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的h_{FE}表示P：82～180，Q：120～270，R：180～390。详情请参考规格书等。
注4：*3 关于6pin封装(TSMT6/TUMT6)的内部电路，请参照规格说明书。
注5：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

功率双极晶体管一览表

Package / Polarity / Application	〈DFN2020-3S〉(HUML2020L3) 2020 size *1 PD=0.5W		SOT-89 (MPT3) [SC-62] 4540 size *1 PD=0.5W		TO-252 〈DPAK〉 *2 PD=10W		TO-263AB (LPTL) *2 PD=40W		VCEO (V)	IC (A)	hFE*3
	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
Gate Driver			2SAR642P	2SCR642P					30	10*5	200 to 500
Driver			2SB1697	2SD2661					12	2	270 to 680
			2SAR293P 2SAR293P5	2SCR293P 2SCR293P5					30	1	270 to 680
			2SAR512P 2SAR512P5	2SCR512P 2SCR512P5					30	2	200 to 500
			2SAR552P 2SAR552P5	2SCR552P 2SCR552P5					30	3	200 to 500
	2SAR542F3	2SCR542F3							30	3	200 to 500
			2SAR542P	2SCR542P	2SAR572D3	2SCR572D3			30	5	200 to 500
	2SAR562F3	2SCR562F3							30	6	200 to 500
					2SAR582D3	2SCR582D3			30	10	200 to 500
			2SAR513P 2SAR513P5	2SCR513P 2SCR513P5					50	1	180 to 450
			2SAR553P 2SAR553P5	2SCR553P 2SCR553P5					50	2	180 to 450
			2SAR533P 2SAR533P5	2SCR533P 2SCR533P5					50	3	180 to 450
					2SAR573D3	2SCR573D3			50	3	180 to 450
	2SAR563F3	2SCR563F3							50	6	180 to 450
					2SAR583D3	2SCR583D3			50	7	180 to 450
			2SAR514P 2SAR514P5	2SCR514P 2SCR514P5					80	0.7	120 to 390
			2SAR554P 2SAR554P5	2SCR554P 2SCR554P5					80	1.5	120 to 390
					2SAR574D3	2SCR574D3			80	2	120 to 390
			2SAR544P 2SAR544P5	2SCR544P 2SCR544P5					80	2.5	120 to 390
	2SAR564F3	2SCR564F3							80	4	120 to 390
					2SAR586D3	2SCR586D3	2SAR586J	2SCR586J	80	5	120 to 390
			New 2SAR372P 2SAR372P5	2SCR372P 2SCR372P5					120	0.7	120 to 390
			New 2SAR375P 2SAR375P5	2SCR375P 2SCR375P5					120	1.5	120 to 390
	2SAR567F3	2SCR567F3							120	2.5	120 to 390
					2SAR587D3	2SCR587D3			120	3	120 to 390
High Voltage			2SAR340P	2SCR346P					400	0.1	82 to 270
High Speed Switching			2SA2071P5	2SC5824					60	3	120 to 270 120 to 390
High hFE				2SD2537					25	1.2	820 to 1,800
			2SB1427						20	2	390 to 820
				2SD2153					25	2	560 to 2,700
Darlington*4				2SD1834					60 (VCES)	1	2k or more

注1：*1 为安装于推荐焊盘时。
注2：*2 TC=25°C
注3：*3 关于hFE，请参照规格说明书。
注4：*4 关于内部电路，请参照规格说明书。
注5：PW=1ms，单脉冲。
注6：PNP型的(−)符号省略。
注7：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。

双极晶体管

功率双极晶体管

Package	Application	Product No.							Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*3	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h_{FE}*3 Code								
			General	Automotive										
◆〈DFN2020-3S〉(HUML2020L3) 2020 size	Driver	2SAR542F3	*	–	TR				PNP	0.5	–30	–3	200 to 500	–
		2SAR562F3		–	TR					0.5	–30	–6	200 to 500	–
		2SAR563F3		–	TR					0.5	–50	–6	180 to 450	–
		2SAR564F3		–	TR					0.5	–80	–4	120 to 390	–
		2SAR567F3		–	TR					0.5	–120	–2.5	120 to 390	–
		2SCR542F3		–	TR				NPN	0.5	30	3	200 to 500	–
		2SCR562F3		–	TR					0.5	30	6	200 to 500	–
		2SCR563F3		–	TR					0.5	50	6	180 to 450	–
		2SCR564F3		–	TR					0.5	80	4	120 to 390	–
		2SCR567F3		–	TR					0.5	120	2.5	120 to 390	–
SOT-89 (MPT3) [SC-62] 4540 size	Gate Driver	2SAR642P	–	HZG	T100				PNP	0.5	–30	–10*5	200 to 500	YES
	Driver	2SB1697	*	–	T100					0.5	–12	–2	270 to 680	–
		2SAR293P	–	HZG	T100					0.5	–30	–1	270 to 680	YES
		2SAR293P5	*	–	T100					0.5	–30	–1	270 to 680	–
		2SAR512P	–	HZG	T100					0.5	–30	–2	200 to 500	YES
		2SAR512P5	*	–	T100					0.5	–30	–2	200 to 500	–
		2SAR552P	–	HZG	T100					0.5	–30	–3	200 to 500	YES
		2SAR552P5	*	–	T100					0.5	–30	–3	200 to 500	–
		2SAR542P	*	FRA	T100					0.5	–30	–5	200 to 500	YES
		2SAR513P	–	HZG	T100					0.5	–50	–1	180 to 450	YES
		2SAR513P5	*	–	T100					0.5	–50	–1	180 to 450	–
		2SAR553P	–	HZG	T100					0.5	–50	–2	180 to 450	YES
		2SAR553P5	*	–	T100					0.5	–50	–2	180 to 450	–
		2SAR533P	–	HZG	T100					0.5	–50	–3	180 to 450	YES
		2SAR533P5	*	–	T100					0.5	–50	–3	180 to 450	–
		2SAR514P	–	HZG	T100					0.5	–80	–0.7	120 to 390	YES
		2SAR514P5	*	–	T100					0.5	–80	–0.7	120 to 390	–
		2SAR554P	–	HZG	T100					0.5	–80	–1.5	120 to 390	YES
		2SAR554P5	*	–	T100					0.5	–80	–1.5	120 to 390	–
		2SAR544P	–	HZG	T100					0.5	–80	–2.5	120 to 390	YES
		2SAR544P5	*	–	T100					0.5	–80	–2.5	120 to 390	–
		New 2SAR372P	–	HZG	T100	Q	R			0.5	–120	–0.7	120 to 390	YES
		2SAR372P5	*	–	T100	Q	R			0.5	–120	–0.7	120 to 390	–
		New 2SAR375P	–	HZG	T100	Q	R			0.5	–120	–1.5	120 to 390	YES
		2SAR375P5	*	–	T100	Q	R			0.5	–120	–1.5	120 to 390	–
	High Voltage	2SAR340P	*	–	T100	P	Q			0.5	–400	–0.1	82 to 270	–
	High Speed Switching	2SA2071P5	*	–	T100	Q				0.5	–60	–3	120 to 270	–
	High h_{FE}	2SB1427	*	–	T100	E				0.5	–20	–2	390 to 820	–
	Gate Driver	2SCR642P	–	HZG	T100				NPN	0.5	30	10*5	200 to 500	YES
	Driver	2SD2661	*	–	T100					0.5	12	2	270 to 680	–
		2SCR293P	–	HZG	T100					0.5	30	1	270 to 680	YES
		2SCR293P5	*	–	T100					0.5	30	1	270 to 680	–
		2SCR512P	–	HZG	T100					0.5	30	2	200 to 500	YES
		2SCR512P5	*	–	T100					0.5	30	2	200 to 500	–
		2SCR552P	–	HZG	T100					0.5	30	3	200 to 500	YES
		2SCR552P5	*	–	T100					0.5	30	3	200 to 500	–
		2SCR542P	*	FRA	T100					0.5	30	5	200 to 500	YES
		2SCR513P	–	HZG	T100					0.5	50	1	180 to 450	YES
		2SCR513P5	*	–	T100					0.5	50	1	180 to 450	–
		2SCR553P	–	HZG	T100					0.5	50	2	180 to 450	YES
		2SCR553P5	*	–	T100					0.5	50	2	180 to 450	–
		2SCR533P	–	HZG	T100					0.5	50	3	180 to 450	YES
		2SCR533P5	*	–	T100					0.5	50	3	180 to 450	–
		2SCR514P	–	HZG	T100					0.5	80	0.7	120 to 390	YES
		2SCR514P5	*	–	T100					0.5	80	0.7	120 to 390	–
		2SCR554P	–	HZG	T100					0.5	80	1.5	120 to 390	YES
		2SCR554P5	*	–	T100					0.5	80	1.5	120 to 390	–
		2SCR544P	–	HZG	T100					0.5	80	2.5	120 to 390	YES
		2SCR544P5	*	–	T100					0.5	80	2.5	120 to 390	–
		2SCR372P	–	HZG	T100	Q	R			0.5	120	0.7	120 to 390	YES
		2SCR372P5	*	–	T100	Q	R			0.5	120	0.7	120 to 390	–
		2SCR375P	–	HZG	T100	Q	R			0.5	120	1.5	120 to 390	YES
		2SCR375P5	*	–	T100	Q	R			0.5	120	1.5	120 to 390	–
	High Voltage	2SCR346P	*	–	T100	P	Q			0.5	400	0.1	82 to 270	–
	High Speed Switching	2SC5824	*	–	T100	Q	R			0.5	60	3	120 to 390	–
	High h_{FE}	2SD2537	*	–	T100	V				0.5	25	1.2	820 to 1,800	–
		2SD2153	*	–	T100	U	V	W		0.5	25	2	560 to 2,700	–
	Darlington*4	2SD1834	*	–	T100					0.5	60 (V_{CES})	1	2k or more	–

注1：* 一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 Tc=25°C
注4：*3 的h_{FE}表示P：82～180，Q：120～270，R：180～390，U：560～1200，V：820～1800，W：1200～2700。详情请参考规格书等。
注5：Pw=1ms，单脉冲。
注6：*4 关于内部电路，请参照规格说明书。
注7：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。

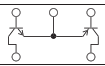
功率双极晶体管

Package	Application	Product No. Part No.	Grade Code General	Grade Code Automotive	Packing code	Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}	Automotive Grade AEC-Q101
 TO-252 〈DPAK〉	Driver	2SAR572D3	*	–	TL1	PNP	10	–30	–5	200 to 500	–
			–	FRA	TL		10	–30	–5	200 to 500	YES
		2SAR582D3	*	–	TL1		10	–30	–10	200 to 500	–
			–	FRA	TL		10	–30	–10	200 to 500	YES
		2SAR573D3	*	–	TL1		10	–50	–3	180 to 450	–
			–	FRA	TL		10	–50	–3	180 to 450	YES
		2SAR583D3	*	–	TL1		10	–50	–7	180 to 450	–
			–	FRA	TL		10	–50	–7	180 to 450	YES
		2SAR574D3	*	–	TL1		10	–80	–2	120 to 390	–
			–	FRA	TL		10	–80	–2	120 to 390	YES
		2SAR586D3	*	–	TL1		10	–80	–5	120 to 390	–
			–	FRA	TL		10	–80	–5	120 to 390	YES
		2SAR587D3	*	–	TL1		10	–120	–3	120 to 390	–
			–	FRA	TL		10	–120	–3	120 to 390	YES
		2SCR572D3	*	–	TL1	NPN	10	30	5	200 to 500	–
			–	FRA	TL		10	30	5	200 to 500	YES
		2SCR582D3	*	–	TL1		10	30	10	200 to 500	–
			–	FRA	TL		10	30	10	200 to 500	YES
		2SCR573D3	*	–	TL1		10	50	3	180 to 450	–
			–	FRA	TL		10	50	3	180 to 450	YES
		2SCR583D3	*	–	TL1		10	50	7	180 to 450	–
			–	FRA	TL		10	50	7	180 to 450	YES
		2SCR574D3	*	–	TL1		10	80	2	120 to 390	–
			–	FRA	TL		10	80	2	120 to 390	YES
		2SCR586D3	*	–	TL1		10	80	5	120 to 390	–
			–	FRA	TL		10	80	5	120 to 390	YES
		2SCR587D3	*	–	TL1		10	120	3	120 to 390	–
			–	FRA	TL		10	120	3	120 to 390	YES
 TO-263AB (LPTL)	Driver	2SAR586J	G	–	TLL	PNP	40	–80	–5	120 to 390	–
			–	FRG	TLL		40	–80	–5	120 to 390	YES
		2SCR586J	G	–	TLL	NPN	40	80	5	120 to 390	–
			–	FRG	TLL		40	80	5	120 to 390	YES

注1：* 一般产品的产品性能代码为空白。
注2：*1 Tc=25°C
注3：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号。

复合双极晶体管

一般放大用 复合双极晶体管一览表

Configuration	Package / Item / Application	Equivalent Circuit Diagram (TOP View)	SOT-553/SOT-563 (EMT5/EMT6) [SC-107BB/SC-107C] 1616 size	SOT-353/SOT-363 (UMT5/UMT6) [SC-88A/SC-88] 2021 size	SOT-25/SOT-457 (SMT5/SMT6) [SC-74A/SC-74] 2928 size	Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}
									
			Part No.						
PNP×2	Pre Amplifier		EMT51			2SAR522EB×2	–20	–0.2	120 to 560
			EMT52			2SAR523EB×2	–50	–0.1	120 to 560
			EMT1	UMT1N	IMT1A	2SA1037AK×2	–50	–0.15	120 to 560
			EMT18	UMT18N	IMT18	2SA2018×2	–12	–0.5	270 to 680
NPN×2	Pre Amplifier		EMX51			2SCR522EB×2	20	0.2	120 to 560
			EMX52			2SCR523EB×2	50	0.1	120 to 560
			EMX1	UMX1N	IMX1	2SC2412K×2	50	0.15	120 to 560
			EMX26			2SD2654×2	50	0.15	820 to 2,700
			EMX18	UMX18N		2SC5585×2	12	0.5	270 to 680
					IMX25	2SD2704K×2	20	0.3	820 to 2,700
PNP + NPN	Pre Amplifier		EMY1	UMY1N	FMY1A	2SA1037AK	–50	–0.15	120 to 560
						2SC2412K	50	0.15	120 to 560
			EMZ51			2SAR522EB	–20	–0.2	120 to 560
						SCR522EB	20	0.2	120 to 560
			EMZ52			2SAR523EB	–50	–0.1	120 to 560
						2SCR523EB	50	0.1	120 to 560
			EMZ1	UMZ1N	IMZ1A	2SA1037AK	–50	–0.15	120 to 560
						2SC2412K	50	0.15	120 to 560
			EMZ7			2SA2018	–12	–0.5	270 to 680
						2SC5585	12	0.5	270 to 680
			EMZ8			2SA2018	–12	–0.5	270 to 680
						2SC2412K	50	0.15	120 to 560

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

复合双极晶体管

一般放大用 复合双极晶体管

Package	Configuration	Application	Product No.				Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}	Automotive Grade AEC-Q101
			Part No.	Grade Code		Packing code					
				General	Automotive						
 SOT-553 (EMT5) [SC-107BB] 1616 size	PNP+NPN	Pre Amplifier	EMY1	*	–	T2R	2SA1037AK	–50	–0.15	120 to 560	–
					–	T2R	2SC2412K	50	0.15	120 to 560	
 SOT-563 (EMT6) [SC-107C] 1616 size	PNP×2	Pre Amplifier	EMT51	*	–	T2R	2SAR522EB×2	–20	–0.2	120 to 560	–
			EMT52		–	T2R	2SAR523EB×2	–50	–0.1	120 to 560	–
			EMT1		–	T2R	2SA1037AK×2	–50	–0.15	120 to 560	–
			EMT18		–	T2R	2SA2018×2	–12	–0.5	270 to 680	–
	NPN×2		EMX51		–	T2R	2SCR522EB×2	20	0.2	120 to 560	–
			EMX52		–	T2R	2SCR523EB×2	50	0.1	120 to 560	–
			EMX1		–	T2R	2SC2412K×2	50	0.15	120 to 560	–
			EMX26		–	T2R	2SD2654×2	50	0.15	820 to 2,700	–
			EMX18		–	T2R	2SC5585×2	12	0.5	270 to 680	–
	PNP+NPN		EMZ51		–	T2R	2SAR522EB	–20	–0.2	120 to 560	–
							2SCR522EB	20	0.2	120 to 560	
			EMZ52		–	T2R	2SAR523EB	–50	–0.1	120 to 560	–
							2SCR523EB	50	0.1	120 to 560	
			EMZ1		–	T2R	2SA1037AK	–50	–0.15	120 to 560	–
							2SC2412K	50	0.15	120 to 560	
			EMZ7		–	T2R	2SA2018	–12	–0.5	270 to 680	–
							2SC5585×2	12	0.5	270 to 680	
			EMZ8		–	T2R	2SA2018	–12	–0.5	270 to 680	–
							2SC2412K	50	0.15	120 to 560	
 SOT-353 (UMT5) [SC-88A] 2021 size	PNP+NPN	Pre Amplifier	UMY1N	*	–	TR	2SA1037AK	–50	–0.15	120 to 560	–
							2SC2412K	50	0.15	120 to 560	
 SOT-363 (UMT6) [SC-88] 2021 size	PNP×2	Pre Amplifier	UMT18N	*	–	TR	2SA2018×2	–12	–0.5	270 to 680	–
			UMT1N		FHA	TN	2SA1037AK×2	–50	–0.15	120 to 560	YES
	NPN×2		UMX18N		–	TN	2SC5585×2	12	0.5	270 to 680	–
			UMX1N		FHA	TN	2SC2412K×2	50	0.15	120 to 560	YES
	PNP+NPN		UMZ1N		FHA	TR	2SA1037AK	–50	–0.15	120 to 560	YES
							2SC2412K	50	0.15	120 to 560	
 SOT-25 (SMT5) [SC-74A] 2928 size	PNP+NPN	Pre Amplifier	FMY1A	*	–	T148	2SA1037AK	–50	–0.15	120 to 560	YES
							2SC2412K	50	0.15	120 to 560	
 SOT-457 (SMT6) [SC-74] 2928 size	PNP×2	Pre Amplifier	IMT1A	*	–	T110	2SA1037AK×2	–50	–0.15	120 to 560	–
			IMT18		–	T110	2SA2018×2	–12	–0.5	270 to 680	–
	NPN×2		IMX1		–	T110	2SC2412K×2	50	0.15	120 to 560	–
			IMX25		–	T110	2SD2704K×2	20	0.3	820 to 2,700	–
	PNP+NPN		IMZ1A		–	T108	2SA1037AK	–50	–0.15	120 to 560	–
							2SC2412K	50	0.15	120 to 560	

注1：* 一般产品的产品性能代码为空白。
注2：关于引脚配置，请参照规格说明书。
注3：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

驱动器用 复合双极晶体管一览表

Configuration	Package / Item / Application	Equivalent Circuit Diagram (TOP View)	SOT-363T (TUMT6) [SC-113DA] 2021 size	SOT-25T/SOT-457T (TSMT5/TSMT6) [—/SC-95] 2928 size	Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}
								
			Part No.					
PNP×2	Driver		**US6T8**	**QST8**	2SB1709×2	–12	–1.5	270 to 680
			US6T9	**QST9**	2SB1710×2	–30	–1	270 to 680
NPN×2	Driver		**US6X7**	**QSX7**	2SD2674×2	12	1.5	270 to 680
			US6X8	**QSX8**	2SD2675×2	30	1	270 to 680
	DC-DC Converter			**QS5W1**	Exclusive Chip	30	3	200 to 500
				QS5W2	2SCR533P×2	50	3	180 to 450
PNP + NPN	Pre Amplifier			**QS6Z5**	2SAR513P 2SCR513P	–50 50	–1 1	180 to 450 180 to 450
	DC-DC Converter			**QSZ2**	2SB1695 2SD2657	–30 30	–1.5 1.5	270 to 680 270 to 680
				QSZ4	2SB1706 2SD2671	–30 30	–2 2	270 to 680 270 to 680
				QS5Y1	Exclusive Chip	–30 30	–3 3	200 to 500 200 to 500
				QS5Y2	2SAR533P 2SCR533P	–50 50	–3 3	180 to 450 180 to 450

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

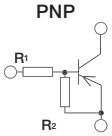
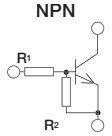
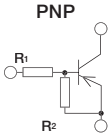
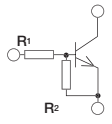
驱动器用 复合双极晶体管

Package	Configuration	Application	Product No. Part No.	Grade Code General	Grade Code Automotive	Packing code	Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}
 SOT-363T (TUMT6) [SC-113DA] 2021 size	PNP×2	Driver	**US6T8**	*	–	TR	2SB1709×2	–12	–1.5	270 to 680
			US6T9	*	–	TR	2SB1710×2	–30	–1	270 to 680
	NPN×2		**US6X7**	*	–	TR	2SD2674×2	12	1.5	270 to 680
			US6X8	*	–	TR	2SD2675×2	30	1	270 to 680
 SOT-25T (TSMT5) 2928 size	NPN×2	DC-DC Converter	**QS5W1**	*	–	TR	Exclusive Chip	30	3	200 to 500
			QS5W2	*	–	TR	2SCR533P×2	50	3	180 to 450
	PNP+NPN		**QSZ2**	*	–	TR	2SB1695 2SD2657	–30 30	–1.5 1.5	270 to 680 270 to 680
			QSZ4	*	–	TR	2SB1706 2SD2671	–30 30	–2 2	270 to 680 270 to 680
			QS5Y1	*	–	TR	Exclusive Chip	–30 30	–3 3	200 to 500 200 to 500
			QS5Y2	*	–	TR	2SAR533P 2SCR533P	–50 50	–3 3	180 to 450 180 to 450
 SOT-457T (TSMT6) [SC-95] 2928 size	PNP×2	Driver	**QST8**	*	–	TR	2SB1709×2	–12	–1.5	270 to 680
			QST9	*	–	TR	2SB1710×2	–30	–1	270 to 680
	NPN×2		**QSX7**	*	–	TR	2SD2674×2	12	1.5	270 to 680
			QSX8	*	–	TR	2SD2675×2	30	1	270 to 680
	PNP+NPN	Pre Amplifier	**QS6Z5**	*	–	TR	2SAR513P 2SCR513P	–50 50	–1 1	180 to 450 180 to 450

注1：* 一般产品的产品性能代码为空白。
注2：关于引脚配置，请参照规格说明书。
注3：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

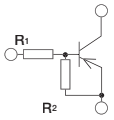
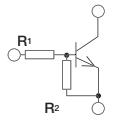
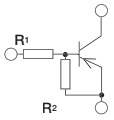
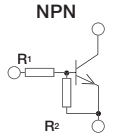
数字晶体管

100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No. General	Part No. Automotive	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
SOT-723 (VMT3) [SC-105AA] 1212 size P_D=150mW*	PNP 	R_1=R_2	DTA123EM	DTA123EMFHA	T2L	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143EM	DTA143EMFHA	T2L	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114EM	DTA114EMFHA	T2L	10	10	−50	−0.05	30 or more	YES
			DTA124EM	DTA124EMFHA	T2L	22	22	−50	−0.03	56 or more	YES
			DTA144EM	DTA144EMFHA	T2L	47	47	−50	−0.03	68 or more	YES
			DTA115EM	DTA115EMFHA	T2L	100	100	−50	−0.02	82 or more	YES
		R_1≠R_2	DTA113ZM	DTA113ZMFHA	T2L	1	10	−50	−0.1	33 or more	YES
			DTA123YM	DTA123YMFHA	T2L	2.2	10	−50	−0.1	33 or more	YES
			DTA123JM	DTA123JMFHA	T2L	2.2	47	−50	−0.1	80 or more	YES
			DTA143XM	DTA143XMFHA	T2L	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZM	DTA143ZMFHA	T2L	4.7	47	−50	−0.1	80 or more	YES
			DTA114WM	DTA114WMFHA	T2L	10	4.7	−50	−0.1	24 or more	YES
			DTA114YM	DTA114YMFHA	T2L	10	47	−50	−0.07	68 or more	YES
			DTA124XM	DTA124XMFHA	T2L	22	47	−50	−0.05	68 or more	YES
			DTA144VM	DTA144VMFHA	T2L	47	10	−50	−0.03	33 or more	YES
			DTA144WM	DTA144WMFHA	T2L	47	22	−50	−0.03	56 or more	YES
		R_1 Alone	DTA123TM	DTA123TMFHA	T2L	2.2	–	−50	−0.1	100 to 600	YES
			DTA143TM	DTA143TMFHA	T2L	4.7	–	−50	−0.1	100 to 600	YES
			DTA114TM	DTA114TMFHA	T2L	10	–	−50	−0.1	100 to 600	YES
	NPN 	R_1=R_2	DTC123EM	DTC123EMFHA	T2L	2.2	2.2	50	0.1	20 or more	YES
			DTC143EM	DTC143EMFHA	T2L	4.7	4.7	50	0.1	30 or more	YES
			DTC114EM	DTC114EMFHA	T2L	10	10	50	0.05	30 or more	YES
			DTC124EM	DTC124EMFHA	T2L	22	22	50	0.03	56 or more	YES
			DTC144EM	DTC144EMFHA	T2L	47	47	50	0.03	68 or more	YES
			DTC115EM	DTC115EMFHA	T2L	100	100	50	0.02	82 or more	YES
		R_1≠R_2	DTC113ZM	DTC113ZMFHA	T2L	1	10	50	0.1	33 or more	YES
			DTC123YM	DTC123YMFHA	T2L	2.2	10	50	0.1	33 or more	YES
			DTC123JM	DTC123JMFHA	T2L	2.2	47	50	0.1	80 or more	YES
			DTC143XM	DTC143XMFHA	T2L	4.7	10	50	0.1	30 or more	YES
			DTC143ZM	DTC143ZMFHA	T2L	4.7	47	50	0.1	80 or more	YES
			DTC114WM	DTC114WMFHA	T2L	10	4.7	50	0.1	24 or more	YES
			DTC114YM	DTC114YMFHA	T2L	10	47	50	0.07	68 or more	YES
			DTC124XM	DTC124XMFHA	T2L	22	47	50	0.05	68 or more	YES
			DTC144VM	DTC144VMFHA	T2L	47	10	50	0.03	33 or more	YES
			DTC144WM	DTC144WMFHA	T2L	47	22	50	0.03	56 or more	YES
		R_1 Alone	DTC123TM	DTC123TMFHA	T2L	2.2	–	50	0.1	100 to 600	YES
			DTC143TM	DTC143TMFHA	T2L	4.7	–	50	0.1	100 to 600	YES
			DTC114TM	DTC114TMFHA	T2L	10	–	50	0.1	100 to 600	YES
			DTC144TM	DTC144TMFHA	T2L	47	–	50	0.1	100 to 600	YES
SOT-416FL (EMT3F) [SC-89] 1616 size P_D=150mW*	PNP 	R_1=R_2	DTA123EEB	—	TL	2.2	2.2	−50	−0.1	20 or more	–
			DTA143EEB	—	TL	4.7	4.7	−50	−0.1	30 or more	–
			DTA114EEB	—	TL	10	10	−50	−0.05	30 or more	–
			DTA124EEB	—	TL	22	22	−50	−0.03	56 or more	–
			DTA144EEB	—	TL	47	47	−50	−0.03	68 or more	–
			DTA115EEB	—	TL	100	100	−50	−0.02	82 or more	–
		R_1≠R_2	DTA113ZEB	—	TL	1	10	−50	−0.1	33 or more	–
			DTA123YEB	—	TL	2.2	10	−50	−0.1	33 or more	–
			DTA123JEB	—	TL	2.2	47	−50	−0.1	80 or more	–
			DTA143XEB	—	TL	4.7	10	−50	−0.1	30 or more	–
			DTA143ZEB	—	TL	4.7	47	−50	−0.1	80 or more	–
			DTA114YEB	—	TL	10	47	−50	−0.07	68 or more	–
			DTA124XEB	—	TL	22	47	−50	−0.05	68 or more	–
		R_1 Alone	DTA143TEB	—	TL	4.7	–	−50	−0.1	100 to 600	–
			DTA114TEB	—	TL	10	–	−50	−0.1	100 to 600	–
	NPN 	R_1=R_2	DTC123EEB	—	TL	2.2	2.2	50	0.1	20 or more	–
			DTC143EEB	—	TL	4.7	4.7	50	0.1	30 or more	–
			DTC114EEB	—	TL	10	10	50	0.05	30 or more	–
			DTC124EEB	—	TL	22	22	50	0.03	56 or more	–
			DTC144EEB	—	TL	47	47	50	0.03	68 or more	–
			DTC115EEB	—	TL	100	100	50	0.02	82 or more	–
		R_1≠R_2	DTC113ZEB	—	TL	1	10	50	0.1	33 or more	–
			DTC123YEB	—	TL	2.2	10	50	0.1	33 or more	–
			DTC123JEB	—	TL	2.2	47	50	0.1	80 or more	–
			DTC143XEB	—	TL	4.7	10	50	0.1	30 or more	–
			DTC143ZEB	—	TL	4.7	47	50	0.1	80 or more	–
			DTC114YEB	—	TL	10	47	50	0.07	68 or more	–
			DTC124XEB	—	TL	22	47	50	0.05	68 or more	–
		R_1 Alone	DTC143TEB	—	TL	4.7	–	50	0.1	100 to 600	–
			DTC114TEB	—	TL	10	–	50	0.1	100 to 600	–

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

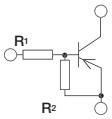
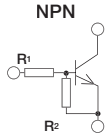
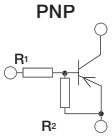
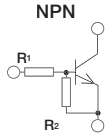
100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No. General	Part No. Automotive	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
SOT-416 (EMT3) [SC-75A] 1616 size P_D=150mW*	PNP 	R_1=R_2	New DTA123EE3	New DTA123EE3HZG	TL	2.2	2.2	−50	−0.1	20 or more	YES
			New DTA143EE3	New DTA143EE3HZG	TL	4.7	4.7	−50	−0.1	30 or more	YES
			New DTA114EE3	New DTA114EE3HZG	TL	10	10	−50	−0.05	30 or more	YES
			New DTA124EE3	New DTA124EE3HZG	TL	22	22	−50	−0.03	56 or more	YES
			New DTA144EE3	New DTA144EE3HZG	TL	47	47	−50	−0.03	68 or more	YES
			New DTA115EE3	New DTA115EE3HZG	TL	100	100	−50	−0.02	82 or more	YES
		R_1≠R_2	New DTA113ZE3	New DTA113ZE3HZG	TL	1	10	−50	−0.1	33 or more	YES
			New DTA123YE3	New DTA123YE3HZG	TL	2.2	10	−50	−0.1	33 or more	YES
			New DTA123JE3	New DTA123JE3HZG	TL	2.2	47	−50	−0.1	80 or more	YES
			New DTA143XE3	New DTA143XE3HZG	TL	4.7	10	−50	−0.1	30 or more	YES
			New DTA143ZE3	New DTA143ZE3HZG	TL	4.7	47	−50	−0.1	80 or more	YES
			New DTA114YE3	New DTA114YE3HZG	TL	10	47	−50	−0.07	68 or more	YES
			New DTA124XE3	New DTA124XE3HZG	TL	22	47	−50	−0.05	68 or more	YES
		R_1 Alone	New DTA143TE3	New DTA143TE3HZG	TL	4.7	–	−50	−0.1	100 to 600	YES
			New DTA114TE3	New DTA114TE3HZG	TL	10	–	−50	−0.1	100 to 600	YES
	NPN 	R_1=R_2	New DTC123EE3	New DTC123EE3HZG	TL	2.2	2.2	50	0.1	20 or more	YES
			New DTC143EE3	New DTC143EE3HZG	TL	4.7	4.7	50	0.1	30 or more	YES
			New DTC114EE3	New DTC114EE3HZG	TL	10	10	50	0.05	30 or more	YES
			New DTC124EE3	New DTC124EE3HZG	TL	22	22	50	0.03	56 or more	YES
			New DTC144EE3	New DTC144EE3HZG	TL	47	47	50	0.03	68 or more	YES
			New DTC115EE3	New DTC115EE3HZG	TL	100	100	50	0.02	82 or more	YES
		R_1≠R_2	New DTC113ZE3	New DTC113ZE3HZG	TL	1	10	50	0.1	33 or more	YES
			New DTC123YE3	New DTC123YE3HZG	TL	2.2	10	50	0.1	33 or more	YES
			New DTC123JE3	New DTC123JE3HZG	TL	2.2	47	50	0.1	80 or more	YES
			New DTC143XE3	New DTC143XE3HZG	TL	4.7	10	50	0.1	30 or more	YES
			New DTC143ZE3	New DTC143ZE3HZG	TL	4.7	47	50	0.1	80 or more	YES
			New DTC114YE3	New DTC114YE3HZG	TL	10	47	50	0.07	68 or more	YES
			New DTC124XE3	New DTC124XE3HZG	TL	22	47	50	0.05	68 or more	YES
		R_1 Alone	New DTC143TE3	New DTC143TE3HZG	TL	4.7	–	50	0.1	100 to 600	YES
			New DTC114TE3	New DTC114TE3HZG	TL	10	–	50	0.1	100 to 600	YES
SOT-323FL (UMT3F) [SC-85] 2021 size P_D=200mW*	PNP 	R_1=R_2	DTA123EUB	—	TL	2.2	2.2	−50	−0.1	20 or more	–
			DTA143EUB	—	TL	4.7	4.7	−50	−0.1	30 or more	–
			DTA114EUB	—	TL	10	10	−50	−0.05	30 or more	–
			DTA124EUB	—	TL	22	22	−50	−0.03	56 or more	–
			DTA144EUB	—	TL	47	47	−50	−0.03	68 or more	–
			DTA115EUB	—	TL	100	100	−50	−0.02	82 or more	–
		R_1≠R_2	DTA113ZUB	—	TL	1	10	−50	−0.1	33 or more	–
			DTA123YUB	—	TL	2.2	10	−50	−0.1	33 or more	–
			DTA123JUB	—	TL	2.2	47	−50	−0.1	80 or more	–
			DTA143XUB	—	TL	4.7	10	−50	−0.1	30 or more	–
			DTA143ZUB	—	TL	4.7	47	−50	−0.1	80 or more	–
			DTA114YUB	—	TL	10	47	−50	−0.07	68 or more	–
			DTA124XUB	—	TL	22	47	−50	−0.05	68 or more	–
		R_1 Alone	DTA143TUB	—	TL	4.7	–	−50	−0.1	100 to 600	–
			DTA114TUB	—	TL	10	–	−50	−0.1	100 to 600	–
	NPN 	R_1=R_2	DTC123EUB	—	TL	2.2	2.2	50	0.1	20 or more	–
			DTC143EUB	—	TL	4.7	4.7	50	0.1	30 or more	–
			DTC114EUB	—	TL	10	10	50	0.05	30 or more	–
			DTC124EUB	—	TL	22	22	50	0.03	56 or more	–
			DTC144EUB	—	TL	47	47	50	0.03	68 or more	–
			DTC115EUB	—	TL	100	100	50	0.02	82 or more	–
		R_1≠R_2	DTC113ZUB	—	TL	1	10	50	0.1	33 or more	–
			DTC123YUB	—	TL	2.2	10	50	0.1	33 or more	–
			DTC123JUB	—	TL	2.2	47	50	0.1	80 or more	–
			DTC143XUB	—	TL	4.7	10	50	0.1	30 or more	–
			DTC143ZUB	—	TL	4.7	47	50	0.1	80 or more	–
			DTC114YUB	—	TL	10	47	50	0.07	68 or more	–
			DTC124XUB	—	TL	22	47	50	0.05	68 or more	–
		R_1 Alone	DTC143TUB	—	TL	4.7	–	50	0.1	100 to 600	–
			DTC114TUB	—	TL	10	–	50	0.1	100 to 600	–

注1：*为安装于推荐焊盘时。
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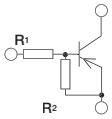
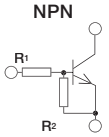
数字晶体管

100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No. General	Part No. Automotive	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
SOT-323 (UMT3) [SC-70] 2021 size P_D=200mW*	PNP 	$R_1 \neq R_2$	DTA114WUA	—	T106	10	4.7	−50	−0.1	24 or more	—
			DTA144WUA	—	T106	47	22	−50	−0.03	56 or more	—
		R_1 Alone	DTA123TUA	—	T106	2.2	–	−50	−0.1	100 to 600	—
			DTA124TUA	—	T106	22	–	−50	−0.1	100 to 600	—
			DTA144TUA	—	T106	47	–	−50	−0.1	100 to 600	—
			DTA115TUA	—	T106	100	–	−50	−0.1	100 to 600	—
		R_2 Alone	DTA114GUA	—	T106	–	10	−50	−0.1	30 or more	—
			DTA144GUA	—	T106	–	47	−50	−0.1	68 or more	—
			DTA115GUA	—	T106	–	100	−50	−0.1	82 or more	—
	NPN 	$R_1 \neq R_2$	DTC114WUA	—	T106	10	4.7	50	0.1	24 or more	—
			DTC144WUA	—	T106	47	22	50	0.03	56 or more	—
		R_1 Alone	DTC124TUA	—	T106	22	–	50	0.1	100 to 600	—
			DTC144TUA	—	T106	47	–	50	0.1	100 to 600	—
			DTC115TUA	—	T106	100	–	50	0.1	100 to 600	—
		R_2 Alone	DTC124GUA	—	T106	–	22	50	0.1	56 or more	—
			DTC144GUA	—	T106	–	47	50	0.1	68 or more	—
	PNP 	$R_1 = R_2$	DTA123EU3	DTA123EU3HZG	T106	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143EU3	DTA143EU3HZG	T106	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114EU3	DTA114EU3HZG	T106	10	10	−50	−0.05	30 or more	YES
			DTA124EU3	DTA124EU3HZG	T106	22	22	−50	−0.03	56 or more	YES
			DTA144EU3	DTA144EU3HZG	T106	47	47	−50	−0.03	68 or more	YES
			DTA115EU3	—	T106	100	100	−50	−0.02	82 or more	—
		$R_1 \neq R_2$	DTA113ZU3	DTA113ZU3HZG	T106	1	10	−50	−0.1	33 or more	YES
			DTA123YU3	DTA123YU3HZG	T106	2.2	10	−50	−0.1	33 or more	YES
			DTA123JU3	DTA123JU3HZG	T106	2.2	47	−50	−0.1	80 or more	YES
			DTA143XU3	DTA143XU3HZG	T106	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZU3	DTA143ZU3HZG	T106	4.7	47	−50	−0.1	80 or more	YES
			DTA114YU3	DTA114YU3HZG	T106	10	47	−50	−0.07	68 or more	YES
			DTA124XU3	DTA124XU3HZG	T106	22	47	−50	−0.05	68 or more	YES
		R_1 Alone	DTA143TU3	DTA143TU3HZG	T106	4.7	–	−50	−0.1	100 to 600	YES
			DTA114TU3	DTA114TU3HZG	T106	10	–	−50	−0.1	100 to 600	YES
	NPN 	$R_1 = R_2$	DTC123EU3	DTC123EU3HZG	T106	2.2	2.2	50	0.1	20 or more	YES
			DTC143EU3	DTC143EU3HZG	T106	4.7	4.7	50	0.1	30 or more	YES
			DTC114EU3	DTC114EU3HZG	T106	10	10	50	0.05	30 or more	YES
			DTC124EU3	DTC124EU3HZG	T106	22	22	50	0.03	56 or more	YES
			DTC144EU3	DTC144EU3HZG	T106	47	47	50	0.03	68 or more	YES
			DTC115EU3	—	T106	100	100	50	0.02	82 or more	—
		$R_1 \neq R_2$	DTC113ZU3	DTC113ZU3HZG	T106	1	10	50	0.1	33 or more	YES
			DTC123YU3	DTC123YU3HZG	T106	2.2	10	50	0.1	33 or more	YES
			DTC123JU3	DTC123JU3HZG	T106	2.2	47	50	0.1	80 or more	YES
			DTC143XU3	DTC143XU3HZG	T106	4.7	10	50	0.1	30 or more	YES
			DTC143ZU3	DTC143ZU3HZG	T106	4.7	47	50	0.1	80 or more	YES
			DTC114YU3	DTC114YU3HZG	T106	10	47	50	0.07	68 or more	YES
			DTC124XU3	DTC124XU3HZG	T106	22	47	50	0.05	68 or more	YES
		R_1 Alone	DTC143TU3	DTC143TU3HZG	T106	4.7	–	50	0.1	100 to 600	YES
			DTC114TU3	DTC114TU3HZG	T106	10	–	50	0.1	100 to 600	YES
		R_2 Alone	DTC114GU3	—	T106	–	10	50	0.1	30 or more	—
			DTC115GU3	—	T106	–	100	50	0.1	82 or more	—

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

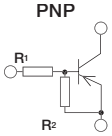
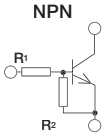
100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No. General	Part No. Automotive	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
SOT-23 (SST3) 2924 size P_D=200mW*	PNP 	R_1=R_2	DTA123ECA	DTA123ECAHZG	T116	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143ECA	DTA143ECAHZG	T116	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114ECA	DTA114ECAHZG	T116	10	10	−50	−0.05	30 or more	YES
			DTA124ECA	DTA124ECAHZG	T116	22	22	−50	−0.03	56 or more	YES
			DTA144ECA	DTA144ECAHZG	T116	47	47	−50	−0.03	68 or more	YES
			DTA115ECA	—	T116	100	100	−50	−0.02	82 or more	—
		R_1≠R_2	DTA113ZCA	DTA113ZCAHZG	T116	1	10	−50	−0.1	33 or more	YES
			DTA123YCA	DTA123YCAHZG	T116	2.2	10	−50	−0.1	33 or more	YES
			DTA123JCA	DTA123JCAHZG	T116	2.2	47	−50	−0.1	80 or more	YES
			DTA143XCA	DTA143XCAHZG	T116	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZCA	DTA143ZCAHZG	T116	4.7	47	−50	−0.1	80 or more	YES
			DTA114YCA	DTA114YCAHZG	T116	10	47	−50	−0.07	68 or more	YES
			DTA124XCA	DTA124XCAHZG	T116	22	47	−50	−0.05	68 or more	YES
			DTA144VCA	DTA144VCAHZG	T116	47	10	−50	−0.03	33 or more	YES
			DTA144WCA	DTA144WCAHZG	T116	47	22	−50	−0.03	56 or more	YES
		R_1 Alone	DTA123TCA	DTA123TCAHZG	T116	2.2	—	−50	−0.1	100 to 600	YES
			DTA143TCA	DTA143TCAHZG	T116	4.7	—	−50	−0.1	100 to 600	YES
			DTA114TCA	DTA114TCAHZG	T116	10	—	−50	−0.1	100 to 600	YES
			DTA124TCA	DTA124TCAHZG	T116	22	—	−50	−0.1	100 to 600	YES
			DTA144TCA	DTA144TCAHZG	T116	47	—	−50	−0.1	100 to 600	YES
			DTA115TCA	DTA115TCAHZG	T116	100	—	−50	−0.1	100 to 600	YES
	NPN 	R_1=R_2	DTC123ECA	DTC123ECAHZG	T116	2.2	2.2	50	0.1	20 or more	YES
			DTC143ECA	DTC143ECAHZG	T116	4.7	4.7	50	0.1	30 or more	YES
			DTC114ECA	DTC114ECAHZG	T116	10	10	50	0.05	30 or more	YES
			DTC124ECA	DTC124ECAHZG	T116	22	22	50	0.03	56 or more	YES
			DTC144ECA	DTC144ECAHZG	T116	47	47	50	0.03	68 or more	YES
			DTC115ECA	—	T116	100	100	50	0.02	82 or more	—
		R_1≠R_2	DTC113ZCA	DTC113ZCAHZG	T116	1	10	50	0.1	33 or more	YES
			DTC123YCA	DTC123YCAHZG	T116	2.2	10	50	0.1	33 or more	YES
			DTC123JCA	DTC123JCAHZG	T116	2.2	47	50	0.1	80 or more	YES
			DTC143XCA	DTC143XCAHZG	T116	4.7	10	50	0.1	30 or more	YES
			DTC143ZCA	DTC143ZCAHZG	T116	4.7	47	50	0.1	80 or more	YES
			DTC114YCA	DTC114YCAHZG	T116	10	47	50	0.07	68 or more	YES
			DTC124XCA	DTC124XCAHZG	T116	22	47	50	0.05	68 or more	YES
			DTC144VCA	DTC144VCAHZG	T116	47	10	50	0.03	33 or more	YES
			DTC144WCA	DTC144WCAHZG	T116	47	22	50	0.03	56 or more	YES
		R_1 Alone	DTC123TCA	DTC123TCAHZG	T116	2.2	—	50	0.1	100 to 600	YES
			DTC143TCA	DTC143TCAHZG	T116	4.7	—	50	0.1	100 to 600	YES
			DTC114TCA	DTC114TCAHZG	T116	10	—	50	0.1	100 to 600	YES
			DTC124TCA	DTC124TCAHZG	T116	22	—	50	0.1	100 to 600	YES
			DTC144TCA	DTC144TCAHZG	T116	47	—	50	0.1	100 to 600	YES
			DTC115TCA	DTC115TCAHZG	T116	100	—	50	0.1	100 to 600	YES

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装。

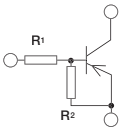
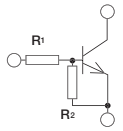
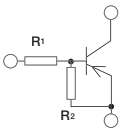
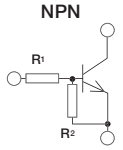
数字晶体管

100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No. General	Part No. Automotive	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
SOT-346 (SMT3) [SC-59] 2928 size P_D=200mW*	PNP 	R_1=R_2	DTA123EKA	DTA123EKAFRA	T146	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143EKA	DTA143EKAFRA	T146	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114EKA	DTA114EKAFRA	T146	10	10	−50	−0.05	30 or more	YES
			DTA124EKA	DTA124EKAFRA	T146	22	22	−50	−0.03	56 or more	YES
			DTA144EKA	DTA144EKAFRA	T146	47	47	−50	−0.03	68 or more	YES
			DTA115EKA	DTA115EKAFRA	T146	100	100	−50	−0.02	82 or more	YES
		R_1≠R_2	DTA113ZKA	DTA113ZKAFRA	T146	1	10	−50	−0.1	33 or more	YES
			DTA123YKA	DTA123YKAFRA	T146	2.2	10	−50	−0.1	33 or more	YES
			DTA123JKA	DTA123JKAFRA	T146	2.2	47	−50	−0.1	80 or more	YES
			DTA143XKA	DTA143XKAFRA	T146	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZKA	DTA143ZKAFRA	T146	4.7	47	−50	−0.1	80 or more	YES
			DTA114YKA	DTA114YKAFRA	T146	10	47	−50	−0.07	68 or more	YES
			DTA124XKA	DTA124XKAFRA	T146	22	47	−50	−0.05	68 or more	YES
		R_1 Alone	DTA143TKA	DTA143TKAFRA	T146	4.7	–	−50	−0.1	100 to 600	YES
			DTA114TKA	DTA114TKAFRA	T146	10	–	−50	−0.1	100 to 600	YES
	NPN 	R_1=R_2	DTC123EKA	DTC123EKAFRA	T146	2.2	2.2	50	0.1	20 or more	YES
			DTC143EKA	DTC143EKAFRA	T146	4.7	4.7	50	0.1	30 or more	YES
			DTC114EKA	DTC114EKAFRA	T146	10	10	50	0.05	30 or more	YES
			DTC124EKA	DTC124EKAFRA	T146	22	22	50	0.03	56 or more	YES
			DTC144EKA	DTC144EKAFRA	T146	47	47	50	0.03	68 or more	YES
			DTC115EKA	DTC115EKAFRA	T146	100	100	50	0.02	82 or more	YES
		R_1≠R_2	DTC113ZKA	DTC113ZKAFRA	T146	1	10	50	0.1	33 or more	YES
			DTC123YKA	DTC123YKAFRA	T146	2.2	10	50	0.1	33 or more	YES
			DTC123JKA	DTC123JKAFRA	T146	2.2	47	50	0.1	80 or more	YES
			DTC143XKA	DTC143XKAFRA	T146	4.7	10	50	0.1	30 or more	YES
			DTC143ZKA	DTC143ZKAFRA	T146	4.7	47	50	0.1	80 or more	YES
			DTC114YKA	DTC114YKAFRA	T146	10	47	50	0.07	68 or more	YES
			DTC124XKA	DTC124XKAFRA	T146	22	47	50	0.05	68 or more	YES
		R_1 Alone	DTC143TKA	DTC143TKAFRA	T146	4.7	–	50	0.1	100 to 600	YES
			DTC114TKA	DTC114TKAFRA	T146	10	–	50	0.1	100 to 600	YES

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

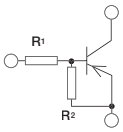
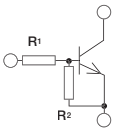
100mA 数字晶体管(一般产品)

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
SOT-723 (VMT3) [SC-105AA] 1212 size P_D=150mW*	PNP 	R_1=R_2	DTA023EM	T2L	2.2	2.2	−50	−0.1	20 or more
			DTA043EM	T2L	4.7	4.7	−50	−0.1	20 or more
			DTA014EM	T2L	10	10	−50	−0.05	35 or more
			DTA024EM	T2L	22	22	−50	−0.03	60 or more
			DTA044EM	T2L	47	47	−50	−0.03	80 or more
			DTA015EM	T2L	100	100	−50	−0.02	80 or more
		R_1≠R_2	DTA013ZM	T2L	1	10	−50	−0.1	30 or more
			DTA023YM	T2L	2.2	10	−50	−0.1	35 or more
			DTA023JM	T2L	2.2	47	−50	−0.1	80 or more
			DTA043XM	T2L	4.7	10	−50	−0.1	35 or more
			DTA043ZM	T2L	4.7	47	−50	−0.1	80 or more
			DTA014YM	T2L	10	47	−50	−0.07	80 or more
			DTA024XM	T2L	22	47	−50	−0.05	80 or more
		R_1 Alone	DTA043TM	T2L	4.7	–	−50	−0.1	100 to 600
			DTA014TM	T2L	10	–	−50	−0.1	100 to 600
			DTA044TM	T2L	47	–	−50	−0.06	100 to 600
			DTA015TM	T2L	100	–	−50	−0.1	100 to 600
	NPN 	R_1=R_2	DTC023EM	T2L	2.2	2.2	50	0.1	20 or more
			DTC043EM	T2L	4.7	4.7	50	0.1	20 or more
			DTC014EM	T2L	10	10	50	0.05	35 or more
			DTC024EM	T2L	22	22	50	0.03	60 or more
			DTC044EM	T2L	47	47	50	0.03	80 or more
			DTC015EM	T2L	100	100	50	0.02	80 or more
		R_1≠R_2	DTC013ZM	T2L	1	10	50	0.1	30 or more
			DTC023YM	T2L	2.2	10	50	0.1	35 or more
			DTC023JM	T2L	2.2	47	50	0.1	80 or more
			DTC043XM	T2L	4.7	10	50	0.1	35 or more
			DTC043ZM	T2L	4.7	47	50	0.1	80 or more
			DTC014YM	T2L	10	47	50	0.07	80 or more
			DTC024XM	T2L	22	47	50	0.05	80 or more
		R_1 Alone	DTC043TM	T2L	4.7	–	50	0.1	100 to 600
			DTC014TM	T2L	10	–	50	0.1	100 to 600
			DTC044TM	T2L	47	–	50	0.06	100 to 600
			DTC015TM	T2L	100	–	50	0.1	100 to 600
SOT-416FL (EMT3F) [SC-89] 1616 size P_D=150mW*	PNP 	R_1=R_2	DTA023EEB	TL	2.2	2.2	−50	−0.1	20 or more
			DTA043EEB	TL	4.7	4.7	−50	−0.1	20 or more
			DTA014EEB	TL	10	10	−50	−0.05	35 or more
			DTA024EEB	TL	22	22	−50	−0.03	60 or more
			DTA044EEB	TL	47	47	−50	−0.03	80 or more
			DTA015EEB	TL	100	100	−50	−0.02	80 or more
		R_1≠R_2	DTA013ZEB	TL	1	10	−50	−0.1	30 or more
			DTA023YEB	TL	2.2	10	−50	−0.1	35 or more
			DTA023JEB	TL	2.2	47	−50	−0.1	80 or more
			DTA043XEB	TL	4.7	10	−50	−0.1	35 or more
			DTA043ZEB	TL	4.7	47	−50	−0.1	80 or more
			DTA014YEB	TL	10	47	−50	−0.07	80 or more
			DTA024XEB	TL	22	47	−50	−0.05	80 or more
		R_1 Alone	DTA043TEB	TL	4.7	–	−50	−0.1	100 to 600
			DTA014TEB	TL	10	–	−50	−0.1	100 to 600
			DTA044TEB	TL	47	–	−50	−0.06	100 to 600
			DTA015TEB	TL	100	–	−50	−0.1	100 to 600
	NPN 	R_1=R_2	DTC023EEB	TL	2.2	2.2	50	0.1	20 or more
			DTC043EEB	TL	4.7	4.7	50	0.1	20 or more
			DTC014EEB	TL	10	10	50	0.05	35 or more
			DTC024EEB	TL	22	22	50	0.03	60 or more
			DTC044EEB	TL	47	47	50	0.03	80 or more
			DTC015EEB	TL	100	100	50	0.02	80 or more
		R_1≠R_2	DTC013ZEB	TL	1	10	50	0.1	30 or more
			DTC023YEB	TL	2.2	10	50	0.1	35 or more
			DTC023JEB	TL	2.2	47	50	0.1	80 or more
			DTC043XEB	TL	4.7	10	50	0.1	35 or more
			DTC043ZEB	TL	4.7	47	50	0.1	80 or more
			DTC014YEB	TL	10	47	50	0.07	80 or more
			DTC024XEB	TL	22	47	50	0.05	80 or more
		R_1 Alone	DTC043TEB	TL	4.7	–	50	0.1	100 to 600
			DTC014TEB	TL	10	–	50	0.1	100 to 600
			DTC044TEB	TL	47	–	50	0.06	100 to 600
			DTC015TEB	TL	100	–	50	0.1	100 to 600

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

数字晶体管

100mA 数字晶体管(一般产品)

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
SOT-323FL (UMT3F) [SC-85] 2021 size P_D=200mW*	PNP 	R_1=R_2	DTA023EUB	TL	2.2	2.2	−50	−0.1	20 or more
			DTA043EUB	TL	4.7	4.7	−50	−0.1	20 or more
			DTA014EUB	TL	10	10	−50	−0.05	35 or more
			DTA024EUB	TL	22	22	−50	−0.03	60 or more
			DTA044EUB	TL	47	47	−50	−0.03	80 or more
			DTA015EUB	TL	100	100	−50	−0.02	80 or more
		R_1≠R_2	DTA013ZUB	TL	1	10	−50	−0.1	30 or more
			DTA023YUB	TL	2.2	10	−50	−0.1	35 or more
			DTA023JUB	TL	2.2	47	−50	−0.1	80 or more
			DTA043XUB	TL	4.7	10	−50	−0.1	35 or more
			DTA043ZUB	TL	4.7	47	−50	−0.1	80 or more
			DTA014YUB	TL	10	47	−50	−0.07	80 or more
			DTA024XUB	TL	22	47	−50	−0.05	80 or more
		R_1 Alone	DTA043TUB	TL	4.7	–	−50	−0.1	100 to 600
			DTA014TUB	TL	10	–	−50	−0.1	100 to 600
			DTA044TUB	TL	47	–	−50	−0.06	100 to 600
			DTA015TUB	TL	100	–	−50	−0.1	100 to 600
	NPN 	R_1=R_2	DTC023EUB	TL	2.2	2.2	50	0.1	20 or more
			DTC043EUB	TL	4.7	4.7	50	0.1	20 or more
			DTC014EUB	TL	10	10	50	0.05	35 or more
			DTC024EUB	TL	22	22	50	0.03	60 or more
			DTC044EUB	TL	47	47	50	0.03	80 or more
			DTC015EUB	TL	100	100	50	0.02	80 or more
		R_1≠R_2	DTC013ZUB	TL	1	10	50	0.1	30 or more
			DTC023YUB	TL	2.2	10	50	0.1	35 or more
			DTC023JUB	TL	2.2	47	50	0.1	80 or more
			DTC043XUB	TL	4.7	10	50	0.1	35 or more
			DTC043ZUB	TL	4.7	47	50	0.1	80 or more
			DTC014YUB	TL	10	47	50	0.07	80 or more
			DTC024XUB	TL	22	47	50	0.05	80 or more
		R_1 Alone	DTC043TUB	TL	4.7	–	50	0.1	100 to 600
			DTC014TUB	TL	10	–	50	0.1	100 to 600
			DTC044TUB	TL	47	–	50	0.06	100 to 600
			DTC015TUB	TL	100	–	50	0.1	100 to 600

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

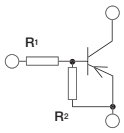
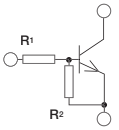
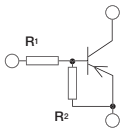
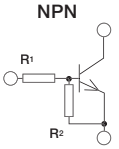
500mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
SOT-23 (SST3) 2924 size P_D=200mW*	PNP	R_1=R_2	DTB113EC	DTB113ECHZG	T116	1	1	−50	−0.5	33 or more	YES
			DTB123EC	DTB123ECHZG	T116	2.2	2.2	−50	−0.5	39 or more	YES
			DTB143EC	DTB143ECHZG	T116	4.7	4.7	−50	−0.5	47 or more	YES
			DTB114EC	DTB114ECHZG	T116	10	10	−50	−0.5	56 or more	YES
		R_1≠R_2	DTB113ZC	DTB113ZCHZG	T116	1	10	−50	−0.5	56 or more	YES
			DTB123YC	DTB123YCHZG	T116	2.2	10	−50	−0.5	56 or more	YES
		R_2 Alone	DTB114GC	DTB114GCHZG	T116	—	10	−50	−0.5	56 or more	YES
		R_1 Alone	DTB123TC	DTB123TCHZG	T116	2.2	—	−40	−0.5	100 to 600	YES
	NPN	R_1=R_2	DTD113EC	DTD113ECHZG	T116	1	1	50	0.5	33 or more	YES
			DTD123EC	DTD123ECHZG	T116	2.2	2.2	50	0.5	39 or more	YES
			DTD143EC	DTD143ECHZG	T116	4.7	4.7	50	0.5	47 or more	YES
			DTD114EC	DTD114ECHZG	T116	10	10	50	0.5	56 or more	YES
		R_1≠R_2	DTD113ZC	DTD113ZCHZG	T116	1	10	50	0.5	56 or more	YES
			DTD123YC	DTD123YCHZG	T116	2.2	10	50	0.5	56 or more	YES
		R_2 Alone	DTD114GC	DTD114GCHZG	T116	—	10	50	0.5	56 or more	YES
		R_1 Alone	DTD123TC	DTD123TCHZG	T116	2.2	—	40	0.5	100 to 600	YES
SOT-346 (SMT3) [SC-59] 2928 size P_D=200mW*	PNP	R_1=R_2	DTB113EK	—	T146	1	1	−50	−0.5	33 or more	—
			DTB123EK	—	T146	2.2	2.2	−50	−0.5	39 or more	—
			DTB143EK	—	T146	4.7	4.7	−50	−0.5	47 or more	—
			DTB114EK	—	T146	10	10	−50	−0.5	56 or more	—
		R_1≠R_2	DTB113ZK	—	T146	1	10	−50	−0.5	56 or more	—
			DTB123YK	—	T146	2.2	10	−50	−0.5	56 or more	—
		R_2 Alone	DTB114GK	—	T146	—	10	−50	−0.5	56 or more	—
		R_1 Alone	DTB123TK	—	T146	2.2	—	−40	−0.5	100 to 600	—
	NPN	R_1=R_2	DTD113EK	—	T146	1	1	50	0.5	33 or more	—
			DTD123EK	—	T146	2.2	2.2	50	0.5	39 or more	—
			DTD143EK	—	T146	4.7	4.7	50	0.5	47 or more	—
			DTD114EK	—	T146	10	10	50	0.5	56 or more	—
		R_1≠R_2	DTD113ZK	—	T146	1	10	50	0.5	56 or more	—
			DTD123YK	—	T146	2.2	10	50	0.5	56 or more	—
		R_2 Alone	DTD114GK	—	T146	—	10	50	0.5	56 or more	—
		R_1 Alone	DTD123TK	—	T146	2.2	—	40	0.5	100 to 600	—

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

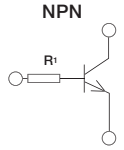
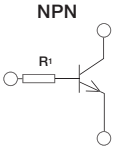
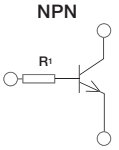
数字晶体管

12V/500mA 数字晶体管

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
SOT-723 (VMT3) [SC-105AA] 1212 size P_D=150mW*	PNP 	$R_1=R_2$	DTB543EM	T2L	4.7	4.7	−12	−0.5	115 or more
		$R_1\neq R_2$	DTB513ZM	T2L	1	10	−12	−0.5	140 or more
			DTB523YM	T2L	2.2	10	−12	−0.5	140 or more
			DTB543XM	T2L	4.7	10	−12	−0.5	140 or more
			DTB543ZM	T2L	4.7	47	−12	−0.5	140 or more
	NPN 	$R_1=R_2$	DTD543EM	T2L	4.7	4.7	12	0.5	115 or more
		$R_1\neq R_2$	DTD513ZM	T2L	1	10	12	0.5	140 or more
			DTD523YM	T2L	2.2	10	12	0.5	140 or more
			DTD543XM	T2L	4.7	10	12	0.5	140 or more
			DTD543ZM	T2L	4.7	47	12	0.5	140 or more
SOT-416 (EMT3) [SC-75A] 1616 size P_D=150mW*	PNP 	$R_1=R_2$	DTB543EE	TL	4.7	4.7	−12	−0.5	115 or more
		$R_1\neq R_2$	DTB513ZE	TL	1	10	−12	−0.5	140 or more
			DTB523YE	TL	2.2	10	−12	−0.5	140 or more
			DTB543ZE	TL	4.7	47	−12	−0.5	140 or more
	NPN 	$R_1=R_2$	DTD543EE	TL	4.7	4.7	12	0.5	115 or more
		$R_1\neq R_2$	DTD513ZE	TL	1	10	12	0.5	140 or more
			DTD523YE	TL	2.2	10	12	0.5	140 or more
			DTD543XE	TL	4.7	10	12	0.5	140 or more
			DTD543ZE	TL	4.7	47	12	0.5	140 or more

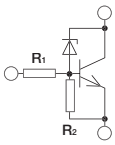
注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

静音用数字晶体管

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
SOT-323FL (UMT3F) [SC-85] 2021 size P_D=200mW*	NPN 	R_1 Alone	DTC923TUB	TL	2.2	–	40 (V_{EBO})	0.4	820 to 2,700
			DTC943TUB	TL	4.7	–	40 (V_{EBO})	0.4	820 to 2,700
			DTC914TUB	TL	10	–	40 (V_{EBO})	0.4	820 to 2,700
SOT-323 (UMT3) [SC-70] 2021 size P_D=200mW*	NPN 	R_1 Alone	DTC623TU	T106	2.2	–	20	0.6	820 to 2,700
			DTC643TU	T106	4.7	–	20	0.6	820 to 2,700
			DTC614TU	T106	10	–	20	0.6	820 to 2,700
SOT-346 (SMT3) [SC-59] 2928 size P_D=200mW*	NPN 	R_1 Alone	DTC623TK	T146	2.2	–	20	0.6	820 to 2,700
			DTC643TK	T146	4.7	–	20	0.6	820 to 2,700
			DTC614TK	T146	10	–	20	0.6	820 to 2,700

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

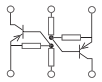
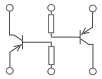
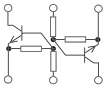
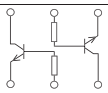
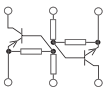
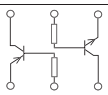
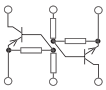
功率数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-89 (MPT3) [SC-62] 4540 size P_D=0.5W*	NPN 	Driver	DTDG23YP	DTDG23YPHZG	T100	2.2	10	60±10	1	300 or more	YES
			DTDG14GP	DTDG14GPHZG	T100	–	10	60±10	1	300 or more	YES

注1：*为安装于推荐焊盘时。
注2：关于内部电路，请参照规格说明书。
注3：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

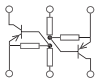
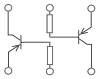
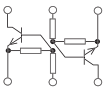
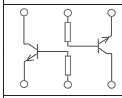
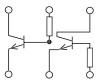
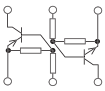
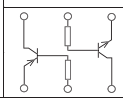
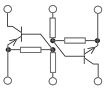
复合数字晶体管

100mA 复合数字晶体管

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
SOT-563 (EMT6) [SC-107C] 1616 size	PNP×2		EMB10	T2R	DTA123J×2	2.2	47	−50	−0.1
			EMB11	T2R	DTA114E×2	10	10		−0.05
			EMB2	T2R	DTA144E×2	47	47		−0.03
			EMB3	T2R	DTA143T×2	4.7	–		−0.1
			EMB4	T2R	DTA114T×2	10	–		−0.1
	NPN×2		EMH10	T2R	DTC123J×2	2.2	47	50	0.1
			EMH25	T2R	DTC143Z×2	4.7	47		0.1
			EMH11	T2R	DTC114E×2	10	10		0.05
			EMH9	T2R	DTC114Y×2	10	47		0.07
			EMH1	T2R	DTC124E×2	22	22		0.03
			EMH2	T2R	DTC144E×2	47	47		0.03
			EMH3	T2R	DTC143T×2	4.7	–		0.1
			EMH4	T2R	DTC114T×2	10	–		0.1
	PNP+NPN Complimentary		EMD22	T2R	DTA143Z	4.7	47	−50	−0.1
					DTC143Z	4.7	47	50	0.1
			EMD3	T2R	DTA114E	10	10	−50	−0.05
					DTC114E	10	10	50	0.05
			EMD9	T2R	DTA114Y	10	47	−50	−0.07
					DTC114Y	10	47	50	0.07
			EMD2	T2R	DTA124E	22	22	−50	−0.03
					DTC124E	22	22	50	0.03
			EMD12	T2R	DTA144E	47	47	−50	−0.03
					DTC144E	47	47	50	0.03
			EMD6	T2R	DTA143T	4.7	–	−50	−0.1
					DTC143T	4.7	–	50	0.1
	PNP+NPN Different type		EMD5	T2R	DTA143X	4.7	10	−50	−0.1
					DTC144E	47	47	50	0.03
			EMD4	T2R	DTA114Y	10	47	−50	−0.1
					DTC144E	7	47	50	0.03

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

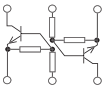
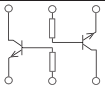
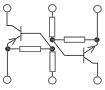
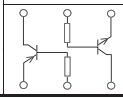
100mA 复合数字晶体管(含车载适用品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.		Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	Automotive Grade AEC-Q101
			General	Automotive							
SOT-363 (UMT6) [SC-88] 2021 size	PNP×2		UMB10N	UMB10NFHA	TN	DTA123J×2	2.2	47	−50	−0.1	YES
			UMB11N	UMB11NFHA	TN	DTA114E×2	10	10		−0.05	YES
			UMB2N	UMB2NFHA	TN	DTA144E×2	47	47		−0.03	YES
			UMB3N	UMB3NFHA	TN	DTA143T×2	4.7	—		−0.1	YES
			UMB4N	UMB4NFHA	TN	DTA114T×2	10	—		−0.1	YES
	NPN×2		UMH10N	UMH10NFHA	TN	DTC123J×2	2.2	47	50	0.1	YES
			UMH25N	UMH25NFHA	TN	DTC143Z×2	4.7	47		0.1	YES
			UMH11N	UMH11NFHA	TN	DTC114E×2	10	10		0.05	YES
			UMH9N	UMH9NFHA	TN	DTC114Y×2	10	47		0.07	YES
			UMH1N	UMH1NFHA	TN	DTC124E×2	22	22		0.03	YES
			UMH2N	UMH2NFHA	TN	DTC144E×2	47	47		0.03	YES
			UMH3N	UMH3NFHA	TN	DTC143T×2	4.7	—		0.1	YES
			UMH4N	UMH4NFHA	TN	DTC114T×2	10	—		0.1	YES
			UMH8N	—	TR	DTC114T×2	10	—		0.1	—
	PNP+NPN Complimentary		UMD25N	—	TR	DTA123J	2.2	47	−50	−0.1	—
						DTC123J	2.2	47	50	0.1	
			UMD22N	UMD22NFHA	TR	DTA143Z	4.7	47	−50	−0.1	YES
						DTC143Z	4.7	47	50	0.1	
			UMD3N	UMD3NFHA	TR	DTA114E	10	10	−50	−0.05	YES
						DTC114E	10	10	50	0.05	
			UMD9N	UMD9NFHA	TR	DTA114Y	10	47	−50	−0.07	YES
						DTC114Y	10	47	50	0.07	
			UMD2N	UMD2NFHA	TR	DTA124E	22	22	−50	−0.03	YES
						DTC124E	22	22	50	0.03	
			UMD12N	UMD12NFHA	TR	DTA144E	47	47	−50	−0.03	YES
						DTC144E	47	47	50	0.03	
			UMD6N	UMD6NFHA	TR	DTA143T	4.7	—	−50	−0.1	YES
						DTC143T	4.7	—	50	0.1	
	PNP+NPN Different type		UMD5N	—	TR	DTA143X	4.7	10	−50	−0.1	—
						DTC144E	47	47	50	0.03	
			UMD4N	—	TR	DTA114Y	10	47	−50	−0.1	—
						DTC144E	47	47	50	0.03	

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

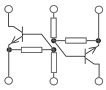
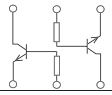
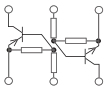
复合数字晶体管

100mA 复合数字晶体管(含车载适用品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.		Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	Automotive Grade AEC-Q101
			General	Automotive							
SOT-457 (SMT6) [SC-74] 2928 size	PNP×2		IMB10A	—	T110	DTA123J×2	2.2	47	−50	−0.1	—
			IMB11A	—	T110	DTA114E×2	10	10		−0.05	—
			IMB2A	—	T110	DTA144E×2	47	47		−0.03	—
			IMB3A	—	T110	DTA143T×2	4.7	—		−0.1	—
	NPN×2		IMH11A	IMH11AFRA	T110	DTC114E×2	10	10	50	0.05	YES
			IMH9A	IMH9AFRA	T110	DTC114Y×2	10	47		0.07	YES
			IMH1A	—	T110	DTC124E×2	22	22		0.03	—
			IMH2A	—	T110	DTC144E×2	47	47		0.03	—
			IMH3A	—	T110	DTC143T×2	4.7	—		0.1	—
			IMH4A	—	T110	DTC114T×2	10	—		0.1	—
	PNP+NPN Complimentary		IMD3A	IMD3AFRA	T108	DTA114E	10	10	−50	−0.05	YES
						DTC114E	10	10	50	0.05	
			IMD9A	IMD9AFRA	T108	DTA114Y	10	47	−50	−0.07	YES
						DTC114Y	10	47	50	0.07	
			IMD2A	—	T108	DTA124E	22	22	−50	−0.03	—
						DTC124E	22	22	50	0.03	
			IMD6A	—	T108	DTA143T	4.7	—	−50	−0.1	—
						DTC143T	4.7	—	50	0.1	

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

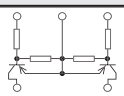
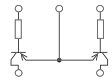
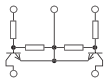
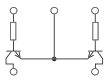
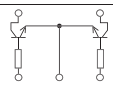
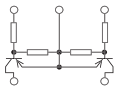
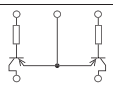
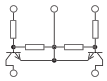
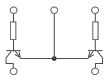
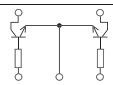
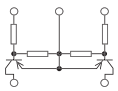
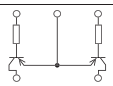
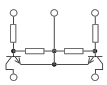
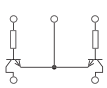
100mA 复合数字晶体管 (一般产品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
SOT-563 (EMT6) [SC-107C] 1616 size	PNP×2		EMB60	T2R	DTA023J×2	2.2	47	−50	−0.1
			EMB75	T2R	DTA043Z×2	4.7	47		−0.1
			EMB59	T2R	DTA014Y×2	10	47		−0.07
			EMB61	T2R	DTA014E×2	10	10		−0.05
			EMB51	T2R	DTA024E×2	22	22		−0.03
			EMB52	T2R	DTA044E×2	47	47		−0.03
			EMB53	T2R	DTA043T×2	4.7	–		−0.1
	NPN×2		EMH60	T2R	DTC023J×2	2.2	47	50	0.1
			EMH75	T2R	DTC043Z×2	4.7	47		0.1
			EMH61	T2R	DTC014E×2	10	10		0.05
			EMH59	T2R	DTC014Y×2	10	47		0.07
			EMH51	T2R	DTC024E×2	22	22		0.03
			EMH52	T2R	DTC044E×2	47	47		0.03
			EMH53	T2R	DTC043T×2	4.7	–		0.1
	PNP+NPN Complimentary		EMD72	T2R	DTA043Z	4.7	47	−50	−0.1
					DTC043Z	4.7	47	50	0.1
			EMD59	T2R	DTA014Y	10	47	−50	−0.07
					DTC014Y	10	47	50	0.07
			EMD53	T2R	DTA014E	10	10	−50	−0.05
					DTC014E	10	10	50	0.05
			EMD52	T2R	DTA024E	22	22	−50	−0.03
					DTC024E	22	22	50	0.03
			EMD62	T2R	DTA044E	47	47	−50	−0.03
					DTC044E	47	47	50	0.03

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

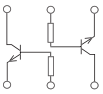
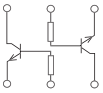
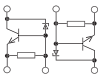
复合数字晶体管

100mA 复合数字晶体管 (一般产品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
SOT-553 (EMT5) [SC-107BB] 1616 size	PNP×2		EMA5	T2R	DTA123J×2	2.2	47	−50	−0.1
			EMA3	T2R	DTA143T×2	4.7	–	−50	−0.1
			EMA4	T2R	DTA114T×2	10	–	−50	−0.1
	NPN×2		EMG11	T2R	DTC123J×2	2.2	47	50	0.1
			EMG8	T2R	DTC143Z×2	4.7	47	50	0.1
			EMG9	T2R	DTC114E×2	10	10	50	0.05
			EMG5	T2R	DTC114Y×2	10	47	50	0.07
			EMG1	T2R	DTC124E×2	22	22	50	0.03
			EMG2	T2R	DTC144E×2	47	47	50	0.03
			EMG3	T2R	DTC143T×2	4.7	–	50	0.1
			EMG4	T2R	DTC114T×2	10	–	50	0.1
			EMG6	T2R	DTC144T×2	47	–	50	0.1
SOT-353 (UMT5) [SC-88A] 2021 size	PNP×2		UMA5N	TR	DTA123J×2	2.2	47	−50	−0.1
			UMA9N	TR	DTA114E×2	10	10	−50	−0.05
			UMA1N	TR	DTA124E×2	22	22	−50	−0.03
			UMA2N	TR	DTA144E×2	47	47	−50	−0.03
			UMA3N	TR	DTA143T×2	4.7	–	−50	−0.1
			UMA4N	TR	DTA114T×2	10	–	−50	−0.1
	NPN×2		UMG11N	TR	DTC123J×2	2.2	47	50	0.1
			UMG8N	TR	DTC143Z×2	4.7	47	50	0.1
			UMG9N	TR	DTC114E×2	10	10	50	0.05
			UMG5N	TR	DTC114Y×2	10	47	50	0.07
			UMG1N	TR	DTC124E×2	22	22	50	0.03
			UMG2N	TR	DTC144E×2	47	47	50	0.03
			UMG3N	TR	DTC143T×2	4.7	–	50	0.1
			UMG4N	TR	DTC114T×2	10	–	50	0.1
			UMG6N	TR	DTC144T×2	47	–	50	0.1
SOT-25 (SMT5) [SC-74A] 2928 size	PNP×2		FMA5A	T148	DTA123J×2	2.2	47	−50	−0.1
			FMA9A	T148	DTA114E×2	10	10	−50	−0.05
			FMA1A	T148	DTA124E×2	22	22	−50	−0.03
			FMA2A	T148	DTA144E×2	47	47	−50	−0.03
			FMA3A	T148	DTA143T×2	4.7	–	−50	−0.1
			FMA4A	T148	DTA114T×2	10	–	−50	−0.1
	NPN×2		FMG9A	T148	DTC114E×2	10	10	50	0.05
			FMG1A	T148	DTC124E×2	22	22	50	0.03
			FMG2A	T148	DTC144E×2	47	47	50	0.03
			FMG3A	T148	DTC143T×2	4.7	–	50	0.1
			FMG4A	T148	DTC114T×2	10	–	50	0.1
			FMG6A	T148	DTC144T×2	47	–	50	0.1

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

电源/静音/驱动器用 复合数字晶体管

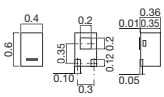
Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
 SOT-563 (EMT6) [SC-107C] 1616 size	PNP+NPN Power Management		**EMD29**	T2R	DTB513Z DTC114E	1 10	10 10	−12 50	−0.5 0.1
 SOT-363 (UMT6) [SC-88] 2021 size	NPN×2 Muting		**UMH33N**	TN	DTC923TUB×2	2.2	–	40 (V_{EBO})	0.4
			UMH37N	TN	DTC914TUB×2	10	–	40 (V_{EBO})	0.4
 SOT-457 (SMT6) [SC-74] 2928 size	PNP+NPN Power Management		**IMD10A**	T108	Exclusive Chip DTC114T	0.1 10	10 –	−50 50	−0.5 0.1
			IMD16A	T108	Exclusive Chip DTC115T	2.2 100	22 –	−50 50	−0.5 0.1
	NPN×2 Muting		**IMH23**	T110	DTC643T×2	4.7	–	20	0.6
			IMH21	T110	DTC614T×2	10	–	20	0.6
 SOT-457T (TSMT6) [SC-95] 2928 size	NPN×2 Driver		**QSH29**	TR	Exclusive Chip×2	–	10	60±10	0.5

注1：SOT-563(EMT6)/SOT-363(UMT6)封装的1 Pin位于等效电路图右上部、SOT-457(SMT6)封装的1 Pin位于等效电路图右下部。
注2：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

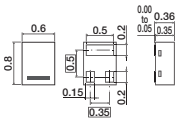
封装

●外形尺寸图 (单位 : mm)

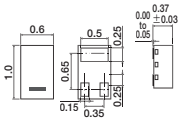
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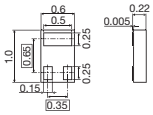
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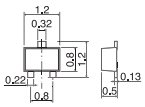
DFN1006-3
(VML1006)
[SC-101]



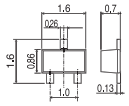
DSN1006-3
(SMM1006)



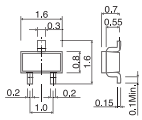
SOT-723
(VMT3)
[SC-105AA]



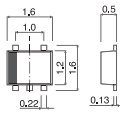
SOT-416FL
(EMT3F)
[SC-89]



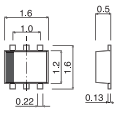
SOT-416
(EMT3)
[SC-75A]



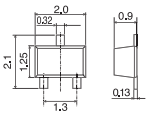
SOT-553
(EMT5)
[SC-107BB]



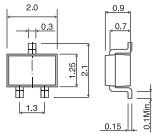
SOT-563
(EMT6)
[SC-107C]



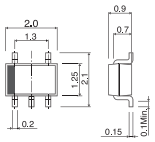
SOT-323FL
(UMT3F)
[SC-85]



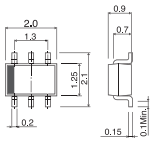
SOT-323
(UMT3)
[SC-70]



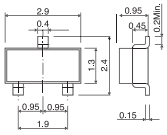
SOT-353
(UMT5)
[SC-88A]



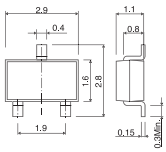
SOT-363
(UMT6)
[SC-88]



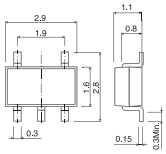
SOT-23
(SST3)



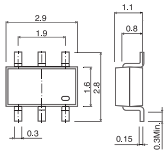
SOT-346
(SMT3)
[SC-59]



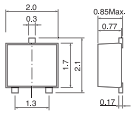
SOT-25
(SMT5)
[SC-74A]



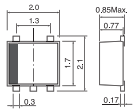
SOT-457
(SMT6)
[SC-74]



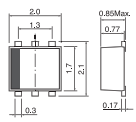
SOT-323T
(TUMT3)
[SC-113A]



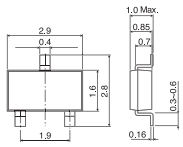
SOT-353T
(TUMT5)
[SC-113CA]



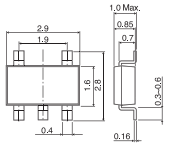
SOT-363T
(TUMT6)
[SC-113DA]



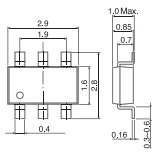
SOT-346T
(TSMT3)
[SC-96]



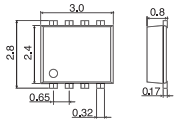
SOT-25T
(TSMT5)



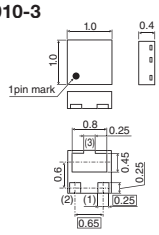
SOT-457T
(TSMT6)
[SC-95]



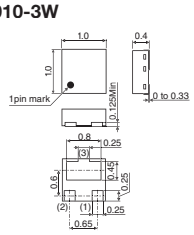
(TSMT8)



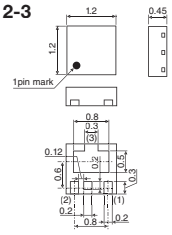
DFN1010-3



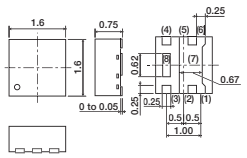
DFN1010-3W



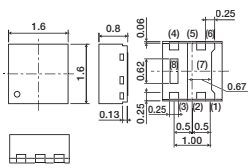
DFN1212-3



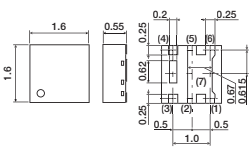
DFN1616-6



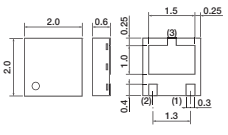
DFN1616-6W



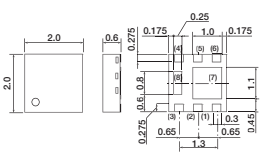
(HEML1616L7 Single)
〈DFN1616-7T〉



(HUML2020L3)
〈DFN2020-3S〉



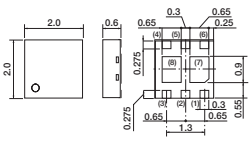
(HUML2020L8 Single)
〈DFN2020-8S〉



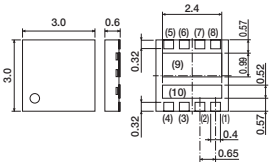
注1：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。
注2：详细尺寸请参考规格书。

●外形尺寸图 (单位 : mm)

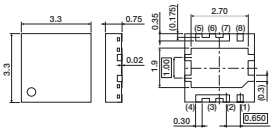
(HUML2020L8 Dual)
〈DFN2020-8D〉



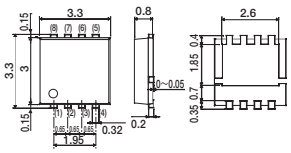
(HSML3030L10)



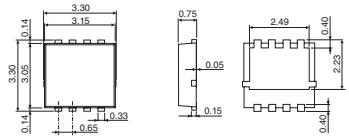
(HSML3333L9)
〈DFN3333-9DC〉



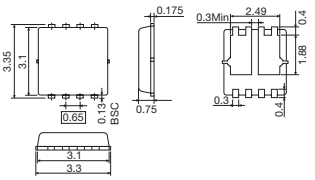
(HSMT8 Single) *1



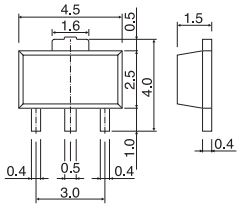
(HSMT8 Single) *2



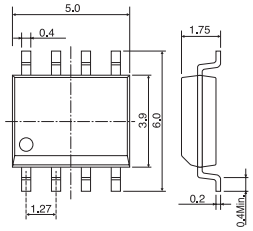
(HSMT8 Dual)



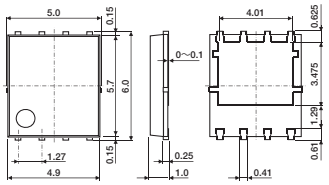
SOT-89
(MPT3)
[SC-62]



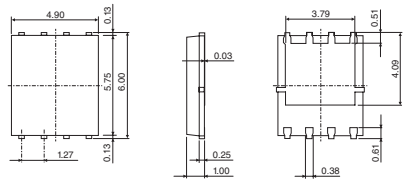
(SOP8)



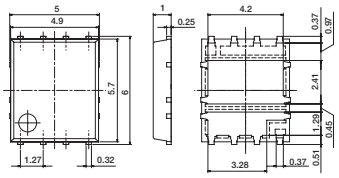
(HSOP8 Single) *1



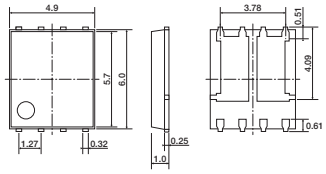
(HSOP8 Single) *2



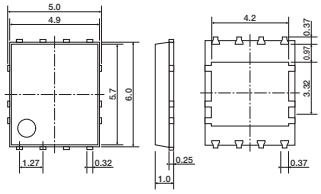
(HSOP8 Asymmetry Dual)



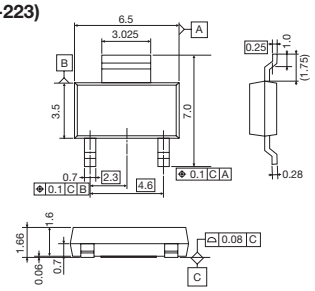
(HSOP8 Symmetry Dual)



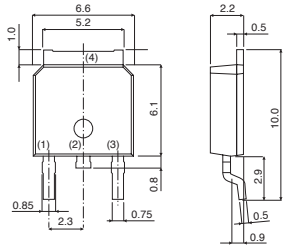
(HSOP8 Drain Common Dual)



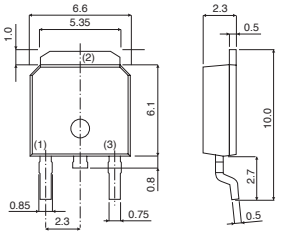
(SOT-223)



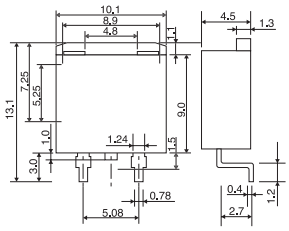
TO-252 *3
〈DPAK〉



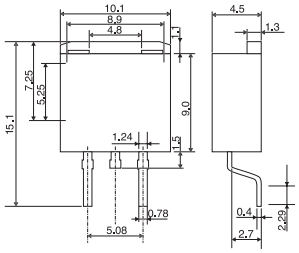
TO-252 *4
〈DPAK〉



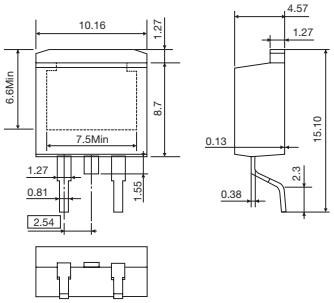
TO-263S
(LPTS)
[SC-83]
〈D2PAK〉



TO-263AB
(LPTL)



TO-263AB
(TO-263AB-3LSHYAD)

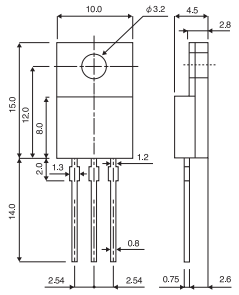


注1：*1 Taping code：TB，*2 Taping code：TB1
注2：*3 Taping code：TL，*4 Taping code：TL1
注3：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号，〈 〉内表示GENERAL编号。
注4：详细尺寸请参考规格书。

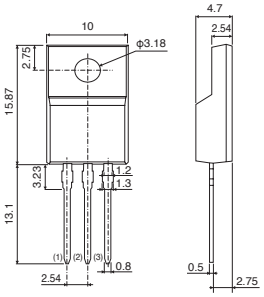
封装

●外形尺寸图 (单位 : mm)

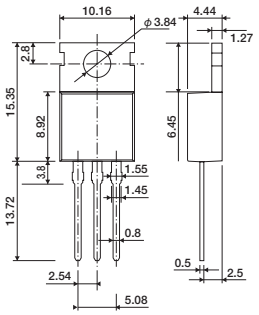
(TO-220FM)*1
〈TO-220FP〉



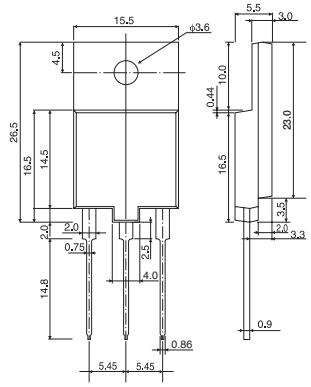
(TO-220FM)*2
〈TO-220FP〉



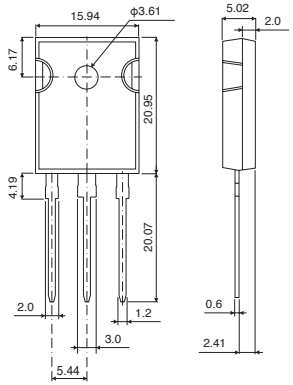
TO-220AB



(TO-3PF)



TO-247AD
(TO-247)



注1：*1 Packing code: —, *2 Packing code: C7 G
注2：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号。
注3：详细尺寸请参考规格书。

品名构成说明

• MOSFET品名构成说明

<Single-Chip type>

例如: R T Q 0 3 5 P 0 2 T R □

包装代码

ROHM

I_D (Unit: 100mA)
ex.)
035=3,500mA (3.5A)

极性

N	Nch
P	Pch

规格·驱动电压

Type of MOSFET	Drive Voltage (V)			
	0.9/1.2/1.5/1.8	2.5	4	10
Low I_{DSS} type	—	—	—	C
General use type	Z, U, Y	T	R, S, X, V	—
High ESD Resistance type	—	J	H	—
Stripe	A	—	—	—

封装

Symbol	Package
M	SOT-723
F	SOT-323T
L	SOT-363T
C	SOT-23
R	SOT-346T
Q	SOT-457T
P	SOT-89
H	(SOP8)
S	(SOP8)
J	TO-263AB
X	TO-220FM

V_{DSS}

Symbol	V_{DSS} (V)
01	12
02	20
03	30
05	45
06	60
10	100
20	200
25	250

<Single-Chip type>

例如: R T 1 A 0 4 0 Z P T L □

包装代码

ROHM

封装

Symbol	Package
V3	DFN0604-3
V1	DFN0806-3
V2	DFN1006-3
A1	DSN1006-3
V4	DFN1616-6W
V8	DFN1010-3W
V9	DFN1010-3
V7	DFN1212-3
V5	DFN1616-6
E1	SOT-416FL
U1	SOT-323FL
F5	SOT-323T
F6	SOT-363T
Q5	SOT-346T
Q6	SOT-457T
Q1	(TSMT8)
Q7	(TSMT8)
W4	DFN1616-7T
F4	DFN2020-8S
Q3	(HSMT8)
H6	(HSMT8)
S3	(SOP8)
S1	(HSOP8)
S6	(HSOP8)
D3	TO-252
X3	TO-220AB
J1	TO-263AB

V_{DSS}

Symbol	V_{DSS} (V)
A	12
C	20
E	30
G	40
H	45
J	50
L	60
P	100
R	150
S	190
T	200
U	250

I_D (A)
ex.)
040=4A
013=1.3A

规格·驱动电压

Symbol	Process	Pol.	Drive Voltage	Comment
SN	Gen.1	Nch	2.5V/4.0V	—
UN	Gen.1	Nch	1.2V/1.5V	—
YN	Gen.1	Nch	0.9V	—
MN	Gen.3	Nch	4.5V	High Performance
BN	Gen.4	Nch	4.5V	—
AD	Gen.4	Nch	4.5V	Built-in ESD Protection
GN	Gen.4	Nch	4.5V	High Performance
AJ	Gen.5	Nch	2.5V	—
SP	Gen.1	Pch	2.5V/4.0V	—
RP	Gen.2	Pch	4.0V	—
ZP	Gen.2	Pch	1.2V/1.5V	—
AP	Gen.4	Pch	1.5V	—
BC	Gen.5	Pch	1.8V	—
AT	Gen.5	Pch	4.5V	—
AA	Gen.1	Nch	10V	For Automotive
BD	Gen.3	Nch	6.0V	—
BE	Gen.3	Nch	10V	—
CN	Gen.1	Nch	10V	—
BG	Gen.6	Nch	4.5V	—
BH	Gen.6	Nch	6V/10V	—
LD	CSP	Nch	2.5V	—

<Dual-Chip type>

例如: S H 8 M 3 □ T B □

包装代码

封装

Symbol	Package
EM6	SOT-563
UM6	SOT-363
US5	SOT-353T
US6	SOT-363T
QS5	SOT-25T
QS6	SOT-457T
QH6	SOT-457T
QS8	(TSMT8)
QH8	(TSMT8)
UT6	DFN2020-8D
HS8	(HSML)
HT	(HSMT8)
SH8	(SOP8)
SP8	(SOP8)
HP8	(HSOP8)

极性

K	Nch+Nch
J	Pch+Pch
M	Nch+Pch
U	MOS+SBD
S	Nch+Nch+SBD

连号(包含字母)
注 : UMT5 & UMT6 末尾加"N"。

<Single-Chip type>

例如: R 6 0 2 0 E N Z 4 C 1 3

包装代码

ROHM

V_{DSS} (V)
60=600V

I_D (A)*
20=20A

极性
N=Nch

E=3rd 第3代(低噪声产品)
K=3rd 第3代(高速开关产品)
J=3rd 第3代(高速trr产品)
Y=4th 第4代
V=4th 第4代(高速trr产品)

封装

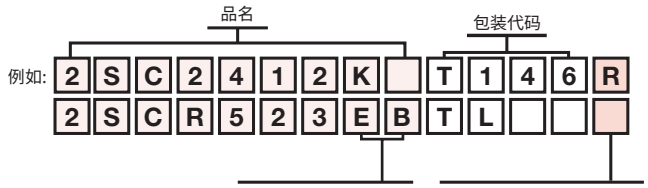
Symbol	Package
H	(SOP8)
TL1	(SOT-223)
D4	(SOT-223)
D3	TO-252
J	TO-263
X	TO-220FM
X3	TO-220AB
Z	(TO-3PF)
Z4	TO-247AD

*绝缘封装时可能不同

注：封装采用JEDEC表示。( )内表示ROHM封装。

品名构成说明

•双极晶体管品名构成说明



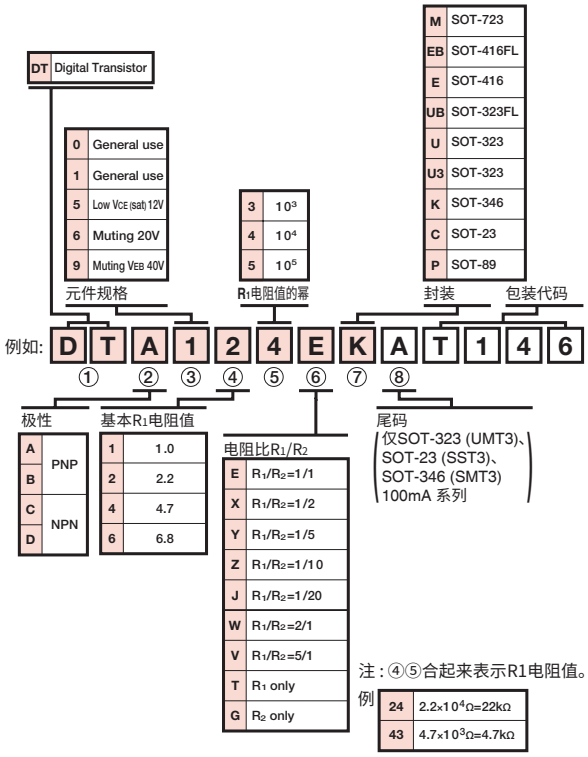
•Package

Code	Package
M	SOT-723
EB	SOT-416FL
E	SOT-416
E3	SOT-416
UB	SOT-323FL
U	SOT-323
U3	SOT-323
K	SOT-346
C	SOT-23
R	SOT-346T
F3	DFN2020-3S
P	SOT-89
P5	SOT-89
D3	TO-252
J	TO-263

•hFE Ranking Code

Code	hFE Range
N	56 to 120
P	82 to 180
Q	120 to 270
R	180 to 390
S	270 to 560
U	560 to 1200
V	820 to 1800
W	1200 to 2700

•数字晶体管品名构成说明



注：④⑤合起来表示R1电阻值。

例

24	2.2×10⁴Ω=22kΩ
43	4.7×10³Ω=4.7kΩ

•封装类型

Package		Code	ROHM Package	JEITA code	Size (mm)	Height (mm)	Packing from	Direction	Quantity (pcs)
Surface Mount type	〈DFN0604-3〉	T2L, T2CL	VML0604	—	0604	0.36	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
	〈DFN0806-3〉	T2L, T2CL	VML0806	—	0806	0.36	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
	〈DFN1006-3〉	T2L, T2CL	VML1006	SC-101	1006	0.37	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
	〈DSN1006-3〉	T5CL	SMM1006	—	1006	0.22	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	15,000
	SOT-723	T2L, T2CL	VMT3	SC-105AA	1212	0.5	Embossed tape	One terminal on sprocket hole side	8,000
	SOT-416FL	TL, TCL	EMT3F	SC-89	1616	0.7	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-416	TL, TCL	EMT3	SC-75A	1616	0.7	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-553	T2R, T2CR	EMT5	SC-107BB	1616	0.5	Embossed tape	Three terminals on sprocket hole side	8,000
	SOT-563	T2R, T2CR	EMT6	SC-107C	1616	0.5	Embossed tape	Terminal No.1 on sprocket hole side	8,000
	SOT-323FL	TL, TCL	UMT3F	SC-85	2120	0.9	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-323	T106, T306	UMT3	SC-70	2120	0.9	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-353	TR, TCR	UMT5	SC-88A	2120	0.9	Embossed tape	Three terminals on sprocket hole side	3,000
	SOT-363	TR, TCR	UMT6	SC-88	2120	0.9	Embossed tape	Terminal No.1 on sprocket hole side	3,000
		TN, TCN					Embossed tape	Non-direction	3,000
	SOT-323T	TL, TCL	TUMT3	SC-113A	2120	0.77	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-353T	TR, TCR	TUMT5	SC-113CA	2120	0.77	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-363T	TR, TCR	TUMT6	SC-113DA	2120	0.77	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-23	T116, T316	SST3	SOT-23	2429	0.95	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-346	T146	SMT3	SC-59	2829	1.1	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-25	T148	SMT5	SC-74A	2829	1.1	Embossed tape	Three terminals on sprocket hole side	3,000
	SOT-457	T108	SMT6	SC-74	2829	1.1	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
		T110					Embossed tape	Non-direction	3,000
	SOT-346T	TL, TCL	TSMT3	SC-96	2829	0.85	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-25T	TR, TCR	TSMT5	SC-95	2829	0.85	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-457T	TR, TCR	TSMT6	SC-95	2829	0.85	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	(TSMT8)	TR, TCR	TSMT8	—	2830	0.8	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN1010-3	G2CR	—	—	1010	0.4	Embossed tape	Terminal No.1 on sprocket hole side	8,000
	DFN1010-3W	G2CR	—	—	1010	0.4	Embossed tape	Terminal No.1 on sprocket hole side	8,000
	DFN1212-3	TCR1	—	—	1212	0.45	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN1616-6	TCR1	—	—	1616	0.75	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN1616-6W	TCR1	—	—	1616	0.75	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	〈DFN1616-7T〉	TCL1	HEML1616L7	—	1616	0.6	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
	〈DFN2020-3S〉	TR, TCR	HUML2020L3	—	2020	0.6	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
	〈DFN2020-8〉	TR, TCR, TR1	HUML2020L8	—	2020	0.6	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	(HSML3030L10)	TB	HSML3030L10	—	3030	0.6	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	〈DFN3333-9DC〉	TCR1	HSML3333L9	—	3333	0.75	Embossed tape	Terminal No.1 on sprocket hole side	1,000
	(HSMT8)	TB, TB1	HSMT8	—	3333	0.8	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-89	T100	MPT3	SC-62	4045	1.5	Embossed tape	Three terminals on sprocket hole side	1,000
	(SOP8)	TB, TB1	SOP8	—	6050	1.75	Embossed tape	Terminal No.1 on sprocket hole side	2,500
	(HSOP8)	TB, TB1	HSOP8	SC-111BB	6050	1	Embossed tape	Three terminals on sprocket hole side	2,500
	(SOT-223)	TL1	SOT-223	—	6.5×7.0	1.66	Embossed tape	Fin on sprocket hole side	4,000
	TO-252	TL, TL1	TO-252	SC-63	10.0×6.6	2.2	Embossed tape	Fin on sprocket hole side	2,500
	TO-263S	TL	LPTS	SC-83	13.1×10.1	4.5	Embossed tape	Fin on sprocket hole side	1,000
	TO-263AB	TLL	LPTL	—	15.1×10.1	4.5	Embossed tape	Fin on sprocket hole side	1,000
		TL1	TO-263AB-3LSHYAD				Embossed tape	Fin on sprocket hole side	1,000
Leaded type	〈TO-220FP〉	—	TO-220FM	—	29×10	4.5	Bulk	—	500
		C7 G				4.7	Tube	—	1,000
	TO-220AB	C16	TO-220AB	SC-46	29.07x10.16	4.5	Tube	—	1,000
	(TO-3PF)	C17	TO-3PF	—	43.8×15.5	5.5	Tube	—	300
	TO-247AD	C13	TO-247	—	41.26x15.94	5.02	Tube	—	600
		C11	TO-247N		41×16	5	Tube	—	450

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号。

二极管

肖特基势垒二极管	P.195	快速恢复二极管	P.208
整流二极管	P.212	齐纳二极管	P.213
保护元件	P.215	双向齐纳二极管	P.215
TVS	P.216	开关二极管	P.220
高频二极管	P.222	封装	P.223
品名构成说明	P.225		

肖特基势垒二极管

●小信号肖特基势垒二极管一览表

V_R (V)	I_O (mA)	Surface Mount type											
		0402 size		0603 size				1006 size					
		DSN0402-2 (SMD0402)		DSN0603-2 (SMD0603)		DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)		SOD-923 (VMN2M)		DFN1006-2W	
20	500											☆RB551ASA-30	19
	2,000							RASMID™ RB061QS-20	5				
30	30									RB751CM-40	8	New RB751ASA-40	20
	100	RASMID™ RB522FS-30	1	RASMID™ RB522ES-30	2					RB520CM-30 RB521CM-30 RB530CM-30 RB531CM-30	9 10 11 12		
	200					RASMID™ RB520HS-30 RASMID™ RB532HS-30	3 4					New RB520ASA-30 New RB521ASA-30	21 22
	500											☆RB550ASA-30	23
40	100									RB530CM-40 RB531CM-40 RB520CM-40 RB521CM-40	13 14 15 16		
	200											New RB520ASA-40	24
	1,000							RASMID™ RB161QS-40	6				
	1,500							RASMID™ RB160QS-40	7				
60	100									RB530CM-60 RB520CM-60	17 18		

◎RASMID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。
RASMID™是ROHM Co., Ltd.的商标或注册商标。
注：封装采用JEDEC表示。( )内表示ROHM封装。

☆：开发中

肖特基势垒二极管

●小信号肖特基势垒二极管一览表

V_R (V)	I_O (mA)	Surface Mount type															
		1608 size		2512 size		2514 size		1616 size		2120 size				2924 size			
																	
		SOD-523 (EMD2) [SC-79]		SOD-323FL (UMD2) [SC-90A]		SOD-323HE (TUMD2M) [SC-108B]		SOT-416FL (EMD3F) [SC-89]		SOT-323FL (UMD3F) [SC-85]		SOT-323 (UMD3) [SC-70]		SOT-23 (SSD3)			
20	500			RB551VM-30	43	RB411VAM-50	68										
	700											RB461FM	123				
	1,000					RB162VAM-20 RB161VAM-20 RBE1VAM20A	69 70 71										
	2,000					RBE2VAM20A	72										
30	30	RB751SM-40	25	RB751VM-40	44												
	100	RB510SM-30 RB511SM-30 RB500SM-30 RB501SM-30	26 27 28 29	RB510VM-30 RB530VM-30 RB511VM-30 RB531VM-30	45 46 47 48			RB548WM RB557WM RB558WM	114 108 115								
	200	RB520SM-30 RB521SM-30 RB530SM-30 RB531SM-30	30 31 32 33	RB520VM-30 RB521VM-30 RB540VM-30 RB541VM-30	49 50 51 52									BAT54CHY BAT54AHY BAT54SHY BAT54HY	106 112 119 125		
	500			RB550VM-30	53	RSX051VAM30 RSX051VYM30	73 74										
	700					RSX071VAM30 RSX071VYM30	75 76										
	1,000					RB168VAM-30 RB168VYM-30 RB550VAM-30 RB550VYM-30 RSX101VAM30 RSX101VYM30	77 78 79 80 81 82										
	1,500					RSX201VAM30 RSX201VYM30	83 84										
40	30							RB715WM RB706WM-40	102 116	RB715UM RB717UM RB706UM-40	103 109 117	RB706FM-40 RB715FM-40	111 105				
	80											RB508FM-40 RB508FM-40S RB508FM-40A RB508FM-40C	124 118 110 104				
	100	RB510SM-40 RB511SM-40 RB530SM-40 RB531SM-40	34 35 36 37	RB510VM-40 RB511VM-40 RB530VM-40 RB531VM-40 RB500VM-40 RB501VM-40	54 55 56 57 58 59					RB451UM RB450UM	121 122						
	120													BAS40-05HY BAS40-06HY BAS40-04HY BAS40HY	107 113 120 126		
	200	RB540SM-40 RB541SM-40 RB520SM-40 RB521SM-40	38 39 40 41	RB540VM-40 RB541VM-40 RB520VM-40 RB521VM-40 RB550VM-40 RB551VM-40	60 61 62 63 64 65												
	500			RB560VM-40 RB561VM-40	66 67	RB400VAM-50 RB400VYM-50	85 86										
	1,000					RB160VAM-40 RB160VYM-40 RB168VAM-40 RB168VYM-40	87 88 89 90										
60	200	RB521SM-60	42														
	1,000					RB160VAM-60 RB168VAM-60 RB168VYM-60	91 92 93										
90	200					RB021VAM90	94										
100	700					RB578VAM100 RB578VYM100	95 96										
	1,000					RB168VAM100 RB168VYM100	97 98										
150	500					RB558VAM150	99										
	1,000					RB168VAM150 RB168VYM150	100 101										

注：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号。

肖特基势垒二极管

肖特基势垒二极管
例: RB751SM-40FHT2R
型号 / 产品性能代码 / 包装代码

小信号肖特基势垒二极管 1

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25°C)				Electrical Characteristics (T_j=25°C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (mA)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V) Max	I_F (mA)	I_R (μA) Max	V_R (V)			
		General	Automotive												
1	RASMID™ RB522FS-30	*	—	T27R	30	30	100	0.5	0.37	10	7	10	DSN0402-2 (SMD0402)		—
2	RASMID™ RB522ES-30		—	T15R	30	30	100	0.5	0.37	10	7	10	DSN0603-2 (SMD0603)		—
3	RASMID™ RB520HS-30		—	T15R	30	30	200	1.5	0.43	10	0.3	10	DSN0603-2 (SMD0603B)		—
4	RASMID™ RB532HS-30		—	T15R	30	30	200	1.5	0.3	10	15	10			—
5	RASMID™ RB061QS-20		—	T18R	20	20	2,000	15	0.47	2,000	200	10	DSN1006-2 (SMD1006)		—
6	RASMID™ RB161QS-40		—	T18R	40	40	1,000	7	0.6	1,000	100	10			—
7	RASMID™ RB160QS-40		—	T18R	40	40	1,500	10	0.65	1,500	1	10			—
8	RB751CM-40		—	T2R	40	30	30	0.2	0.37	1	0.5	30	SOD-923 (VMN2M)		—
9	RB520CM-30		—	T2R	—	30	100	0.5	0.45	10	0.5	10			—
10	RB521CM-30		—	T2R	—	30	100	0.5	0.35	10	10	10			—
11	RB530CM-30		—	T2R	30	30	100	0.5	0.46	10	0.3	10			—
12	RB531CM-30		—	T2R	30	30	100	0.5	0.37	10	7	10			—
13	RB530CM-40		—	T2R	40	40	100	0.5	0.48	10	2	40			—
14	RB531CM-40		—	T2R	40	40	100	0.5	0.41	10	25	40			—
15	RB520CM-40		—	T2R	40	40	100	1	0.71	100	15	40			—
16	RB521CM-40		—	T2R	40	40	100	1	0.61	100	100	40			—
17	RB530CM-60		—	T2R	60	60	100	0.2	0.54	10	1	60			—
18	RB520CM-60		—	T2R	60	60	100	0.5	0.44	10	3	60			—
19	☆RB551ASA-30	—	FH	T2RB	30	20	500	1	0.47	500	100	20	DFN1006-2W		YES
20	New RB751ASA-40		FH	T2RB	40	30	30	0.2	0.37	1	0.5	30			YES
21	New RB520ASA-30		FH	T2RB	30	30	200	1	0.58	200	1	10			YES
22	New RB521ASA-30		FH	T2RB	30	30	200	1	0.47	200	30	10			YES
23	☆RB550ASA-30		FH	T2RB	30	30	500	1	0.59	500	35	30			YES
24	New RB520ASA-40		FH	T2RB	40	40	200	1	0.55	100	10	40			YES
25	RB751SM-40	*	FH	T2R	40	30	30	0.2	0.37	1	0.5	30	SOD-523 (EMD2) [SC-79]		YES
26	RB510SM-30		—	T2R	30	30	100	0.5	0.46	10	0.3	10			—
27	RB511SM-30		—	T2R	30	30	100	0.5	0.37	10	7	10			—
28	RB500SM-30		FH	T2R	30	30	100	1	0.45	10	0.5	10			YES
29	RB501SM-30		FH	T2R	30	30	100	1	0.35	10	10	10			YES
30	RB520SM-30		FH	T2R	—	30	200	1	0.58	200	1	10			YES
31	RB521SM-30		FH	T2R	—	30	200	1	0.47	200	30	10			YES
32	RB530SM-30		FH	T2R	—	30	200	1	0.45	10	0.5	10			YES
33	RB531SM-30		FH	T2R	—	30	200	1	0.35	10	10	10			YES
34	RB510SM-40		FH	T2R	40	40	100	0.5	0.48	10	2	40			YES
35	RB511SM-40		—	T2R	40	40	100	0.5	0.41	10	25	40			—
36	RB530SM-40		FH	T2R	40	40	100	1	0.71	100	15	40			YES
37	RB531SM-40		—	T2R	40	40	100	1	0.61	100	100	40			—
38	RB540SM-40		—	T2R	40	40	200	1	0.71	100	15	40			—
39	RB541SM-40		—	T2R	40	40	200	1	0.61	100	100	40			—
40	RB520SM-40		FH	T2R	45	40	200	1	0.55	100	10	40			YES
41	RB521SM-40		FH	T2R	45	40	200	1	0.54	200	90	40			YES
42	RB521SM-60		FH	T2R	60	60	200	1	0.6	200	100	60			YES

◎RASMID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。
RASMID™是ROHM Co., Ltd.的商标或注册商标。
☆: 开发中
*一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)或1/3 Io(3个元件)。
*2 每个元件的规格。
注：封装采用JEDEC表示。（ ）内表示ROHM封装，[ ]内表示JEITA编号。

肖特基势垒二极管

肖特基势垒二极管
例: RB521VM-30 FH TE-17
型号 产品性能代码 包装代码

小信号肖特基势垒二极管 2

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25°C)				Electrical Characteristics (T_j=25°C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (mA)	I_{FSM} (A)*2 60Hz.1	V_F (V) Max	I_F (mA)	I_R (μA) Max	V_R (V)			
		General	Automotive												
43	RB551VM-30		—	TE-17	30	20	500	2	0.47	500	100	20	SOD-323FL (UMD2) [SC-90A]		—
44	RB751VM-40		FH	TE-17	40	30	30	0.2	0.37	1	0.5	30			YES
45	RB510VM-30		FH	TE-17	30	30	100	0.5	0.46	10	0.3	10			YES
46	RB530VM-30		FH	TE-17	30	30	100	0.5	0.45	10	0.5	10			YES
47	RB511VM-30		—	TE-17	30	30	100	0.5	0.37	10	7	10			—
48	RB531VM-30		—	TE-17	30	30	100	1	0.49	100	10	10			—
49	RB520VM-30		FH	TE-17	30	30	200	1	0.58	200	1	10			YES
50	RB521VM-30		FH	TE-17	30	30	200	1	0.47	200	30	10			YES
51	RB540VM-30		—	TE-17	30	30	200	1	0.45	10	0.5	10			—
52	RB541VM-30		—	TE-17	30	30	200	1	0.64	200	10	10			—
53	RB550VM-30		—	TE-17	30	30	500	1	0.59	500	35	30			—
54	RB510VM-40		—	TE-17	40	40	100	0.5	0.48	10	2	40			—
55	RB511VM-40		—	TE-17	40	40	100	0.5	0.41	10	25	40			—
56	RB530VM-40		FH	TE-17	40	40	100	1	0.69	100	15	40			YES
57	RB531VM-40		—	TE-17	40	40	100	1	0.61	100	100	40			—
58	RB500VM-40	*	FH	TE-17	45	40	100	1	0.45	10	1	10			YES
59	RB501VM-40		FH	TE-17	45	40	100	1	0.55	100	30	10			YES
60	RB540VM-40		—	TE-17	40	40	200	1	0.71	100	15	40			—
61	RB541VM-40		—	TE-17	40	40	200	1	0.61	100	100	40			—
62	RB520VM-40		FH	TE-17	40	40	200	1	0.55	100	10	40			YES
63	RB521VM-40		FH	TE-17	40	40	200	1	0.54	200	90	40			YES
64	RB550VM-40		—	TE-17	40	40	200	1	0.51	200	40	40			—
65	RB551VM-40		FH	TE-17	40	40	200	1	0.43	200	300	40			YES
66	RB560VM-40		FH	TE-17	40	40	500	2	0.64	500	40	40			YES
67	RB561VM-40		—	TE-17	40	40	500	2	0.56	500	300	40			—
68	RB411VAM-50		—	TR	50	20	500	3	0.5	500	30	10	SOD-323HE (TUMD2M) [SC-108B]		—
69	RB162VAM-20		—	TR	25	20	1,000	5	0.4	1,000	1,200	20			—
70	RB161VAM-20		—	TR	30	20	1,000	5	0.42	1,000	1,000	20			—
71	RBE1VAM20A		—	TR	30	20	1,000	3	0.53	1,000	200	20			—
72	RBE2VAM20A		—	TR	30	20	2,000	5	0.46	2,000	700	20			—
73	RSX051VAM30		—	TR	30	30	500	5	0.39	500	200	30			—
74	RSX051VYM30	—	FH	TR	30	30	500	5	0.39	500	200	30			YES
75	RSX071VAM30	*	—	TR	30	30	700	5	0.42	700	200	30			—
76	RSX071VYM30	—	FH	TR	30	30	700	5	0.42	700	200	30			YES
77	RB168VAM-30	*	—	TR	30	30	1,000	5	0.73	1,000	0.3	30			—
78	RB168VYM-30	—	FH	TR	30	30	1,000	5	0.73	1,000	0.3	30			YES
79	RB550VAM-30	*	—	TR	30	30	1,000	5	0.52	1,000	30	10			—
80	RB550VYM-30	—	FH	TR	30	30	1,000	3	0.52	1,000	30	10			YES
81	RSX101VAM30	*	—	TR	30	30	1,000	5	0.47	1,000	200	30			—
82	RSX101VYM30	—	FH	TR	30	30	1,000	5	0.47	1,000	200	30			YES
83	RSX201VAM30	*	—	TR	30	30	1,500	8	0.46	1,500	300	30			—
84	RSX201VYM30	—	FH	TR	30	30	1,500	8	0.46	1,500	300	30			YES
85	RB400VAM-50	*	—	TR	50	40	500	3	0.55	500	50	30			—
86	RB400VYM-50	—	FH	TR	50	40	500	3	0.55	500	50	30			YES

* 一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)或1/3 Io(3个元件)。
*2 每个元件的规格。
注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

肖特基势垒二极管
例: RB168VYM-60 FH TR
型号 产品性能代码 包装代码

小信号肖特基势垒二极管 3

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25°C)				Electrical Characteristics (T_j=25°C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (mA)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V) Max	I_F (mA)	I_R (μA) Max	V_R (V)			
		General	Automotive												
87	RB160VAM-40	*	—	TR	40	40	1,000	10	0.55	700	50	40	SOD-323HE (TUMD2M) [SC-108B]		—
88	RB160VYM-40	—	FH	TR	40	40	1,000	10	0.55	700	50	40			YES
89	RB168VAM-40	*	—	TR	40	40	1,000	5	0.79	1,000	0.5	40			—
90	RB168VYM-40	—	FH	TR	40	40	1,000	5	0.79	1,000	0.5	40			YES
91	RB160VAM-60	*	—	TR	60	60	1,000	5	0.67	1,000	40	60			—
92	RB168VAM-60	*	—	TR	60	60	1,000	5	0.82	1,000	1	60			—
93	RB168VYM-60	—	FH	TR	60	60	1,000	5	0.82	1,000	1	60			YES
94	RB021VAM90	*	—	TR	90	90	200	5	0.49	200	900	90			—
95	RB578VAM100	*	—	TR	100	100	700	5	0.85	700	0.2	100			—
96	RB578VYM100	—	FH	TR	100	100	700	5	0.85	700	0.2	100			YES
97	RB168VAM100	*	—	TR	100	100	1,000	5	0.84	1,000	0.3	100			—
98	RB168VYM100	—	FH	TR	100	100	1,000	5	0.84	1,000	0.3	100			YES
99	RB558VAM150	*	—	TR	150	150	500	3	0.95	500	0.5	150			—
100	RB168VAM150	*	—	TR	150	150	1,000	5	0.89	1,000	1	150			—
101	RB168VYM150	—	FH	TR	150	150	1,000	5	0.89	1,000	1	150			YES
102	RB715WM	*	FH	TL	40	40	30*2	0.2	0.37	1	1	10	SOT-416FL (EMD3F) [SC-89]		YES
103	RB715UM	*	—	TL	40	40	30	0.2	0.37	1	1	10	SOT-323FL (UMD3F) [SC-85]		—
104	RB508FM-40C	—	FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3) [SC-70]		YES
105	RB715FM-40	*	FH	T106	40	40	30	0.2	0.37	1	1	10			YES
106	BAT54CHY		FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
107	BAS40-05HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30			YES
108	RB557WM		—	TL	—	30	100*2	0.5	0.49	100	10	10	SOT-416FL (EMD3F) [SC-89]		—
109	RB717UM		—	TL	45	40	30*2	0.2	0.37	1	1	30	SOT-323FL (UMD3F) [SC-85]		—
110	RB508FM-40A	—	FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3) [SC-70]		YES
111	RB706FM-40	*	FH	T106	45	40	30	0.2	0.37	1	1	30			YES
112	BAT54AHY		FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
113	BAS40-06HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30			YES
114	RB548WM	*	—	TL	—	30	100*2	0.5	0.45	10	0.5	10	SOT-416FL (EMD3F) [SC-89]		—
115	RB558WM		—	TL	—	30	100*2	0.5	0.49	100	10	10			—
116	RB706WM-40		—	TL	45	40	30*2	0.2	0.37	1	0.5	30			—
117	RB706UM-40		—	TL	45	40	30*2	0.2	0.37	1	1	30	SOT-323FL (UMD3F) [SC-85]		—
118	RB508FM-40S	—	FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3) [SC-70]		YES
119	BAT54SHY	*	FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
120	BAS40-04HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30			YES
121	RB451UM		—	TL	40	40	100	1	0.45	100	90	40	SOT-323FL (UMD3F) [SC-85]		—
122	RB450UM		—	TL	45	40	100	1	0.55	100	10	40			—
123	RB461FM		FH	T106	25	20	700	3	0.49	700	200	20	SOT-323 (UMD3) [SC-70]		YES
124	RB508FM-40	—	FH	T106	40	40	80	1	0.48	1	0.035	30			YES
125	BAT54HY	*	FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
126	BAS40HY		FH	T116	40	40	120	0.6	0.5	10	1	30			YES

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*2 每个元件的规格。
注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

肖特基势垒二极管

●中功率肖特基势垒二极管(高效率型)一览表

V_R (V)	I_O (A)	Surface Mount type																	
		2513 size		3516 size						4725 size						5026 size			
																			
		(PMDE)		(PMDU) 〈SOD-123FL〉 [SC-109B]				(PMDUP) 〈SOD-123FL〉		(PMDTP) 〈SOD-128〉		(PMDTM) 〈SOD-128〉				DO-214AC (PMDS) 〈SMA〉			
		Low I_R type		Low V_F/Low I_R type		Low I_R type		Ultra Low I_R type		Ultra Low I_R type		Low V_F/Low I_R type		Low I_R type		Low V_F/Low I_R type			
20	5											RSX501LAM20	2						
30	1			RSX101MM-30	1														
	2											RSX201LAM30 RSX205LAM30	3 4			RSX201L-30 RSX205L-30	6 7		
	3											RSX301LAM30	5			RSX301L-30	8		
100	2	RBLQ2VWM10	9			RBLQ2MM10	10												
	3													RBLQ3LAM10	11				
200	2							New RSX068MP2S	12										
	3									New RSX048LAP2S New RSX058LAP2S	13 14								
	5									New RSX088LAP2S	15								

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

●中功率肖特基势垒二极管(标准品)一览表

V_R (V)	I_O (A)	Surface Mount type																					
		2513 size				3516 size						4725 size						5026 size					
																							
		(PMDE)				(PMDU) 〈SOD-123FL〉 [SC-109B]						(PMDTM) 〈SOD-128〉						DO-214AC (PMDS) 〈SMA〉					
		Low V_F type		Ultra Low I_R type		Ultra Low V_F type		Low V_F type		Ultra Low I_R type		Ultra Low V_F type		Low V_F type		Ultra Low I_R type		Low V_F type		Ultra Low I_R type	
20	1					RBS1MM40A	16					RBS1LAM40A	22								
	2					RBS2MM40A RBS2MM40B RBS2MM40C	17 18 19					RBS2LAM40A RBS2LAM40B RBS2LAM40C	23 24 25								
	3					RBS3MM40A RBS3MM40B	20 21					RBS3LAM40A RBS3LAM40B RBS3LAM40C	26 27 28								
	5											RBS5LAM40A	29								
30	1	RBR1VWM30A	30	RB168VWM-30	91			RBR1MM30A	36	RB168MM-30	101			RBR1LAM30A	52	RB168LAM-30	111	RBR1L30A	70	RB168L-30	131
	2	RBR2VWM30A	31	RB068VWM-30	92			RBR2MM30A RBR2MM30B	37 38	RB068MM-30	102			RBR2LAM30A	53	RB068LAM-30	112	RBR2L30A	71	RB068L-30	132
	3							RBR3MM30A	39					RBR3LAM30A RBR3LAM30B	54 55	RB058LAM-30	113	RBR3L30A RBR3L30B	72 73	RB058L-30	133
	5													RBR5LAM30A RBR5LAM30B	56 57	RB088LAM-30	114	RBR5L30A RBR5L30B	74 75		
40	1	RBR1VWM40A	32	RB168VWM-40	93			RBR1MM40A	40	RB168MM-40	103			RBR1LAM40A	58	RB168LAM-40	115	RBR1L40A	76	RB168L-40	134
	2	RBR2VWM40A	33	RB068VWM-40	94			RBR2MM40A RBR2MM40B RBR2MM40C	41 42 43	RB068MM-40	104			RBR2LAM40A	59	RB068LAM-40	116	RBR2L40A	77	RB068L-40	135
	3							RBR3MM40A RBR3MM40B	44 45					RBR3LAM40A RBR3LAM40B RBR3LAM40C	60 61 62	RB058LAM-40	117	RBR3L40A RBR3L40B RBR3L40C	78 79 80	RB058L-40	136
	5													RBR5LAM40A	63	RB088LAM-40	118	RBR5L40A	81		
60	1	RBR1VWM60A	34	RB168VWM-60	95			RBR1MM60A	46	RB168MM-60	105			RBR1LAM60A	64	RB168LAM-60	119	RBR1L60A	82	RB168L-60	137
	2	RBR2VWM60A	35	RB068VWM-60	96			RBR2MM60A RBR2MM60B RBR2MM60C	47 48 49	RB068MM-60	106			RBR2LAM60A RBR2LAM60B	65 66	RB068LAM-60	120	RBR2L60A RBR2L60B	83 84	RB068L-60	138
	3							RBR3MM60A RBR3MM60B	50 51					RBR3LAM60A RBR3LAM60B	67 68	RB058LAM-60	121	RBR3L60A RBR3L60B	85 86	RB058L-60	139
	5													RBR5LAM60A	69	RB088LAM-60	122	RBR5L60A	87		
90	1							RB160MM-90	89					RB160LAM-90	90			RB160L-90	88		
100	1			RB168VWM100	97					RB168MM100	107					RB168LAM100	123			RB168L100	140
	2			RB068VWM100	98					RB068MM100	108					RB068LAM100	124			RB068L100	141
	3															RB058LAM100	125				
	5															RB088LAM100	126				
150	1			RB168VWM150	99					RB168MM150	109					RB168LAM150	127			RB168L150	142
	2			RB068VWM150	100											RB068LAM150	128			RB068L150	143
	3															RB058LAM150	129			RB058L150	144
	5															RB088LAM150	130				
200	1									New RB168MM200	110										

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

肖特基势垒二极管

肖特基势垒二极管
例: RSX101MM-30TFTR
型号 / 产品性能代码 / 包装代码

中功率肖特基势垒二极管(高效率型)

Quick Reference No.	Part No.	Grade Code: General	Grade Code: Automotive	Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	V_F (V) Max	I_F (A)	I_R (mA) Max	V_R (V)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
低V_F/低I_R型															
1	RSX101MM-30	*	TF	TR	30	30	1	45	0.39	1	0.2	30	(PMDU) 〈SOD-123FL〉 [SC-109B]		YES
2	RSX501LAM20	*	–	TR	20	20	5	100	0.39	3	0.5	20	(PMDTM) 〈SOD-128〉		–
3	RSX201LAM30		TF	TR	30	30	2	60	0.44	2	0.15	30			YES
4	RSX205LAM30		TF	TR	30	30	2	60	0.49	2	0.2	30			YES
5	RSX301LAM30		TF	TR	30	30	3	100	0.42	3	0.2	15			YES
6	RSX201L-30	–	DD	TE25	30	30	2	60	0.44	2	0.15	30	DO-214AC (PMDS) 〈SMA〉		YES
7	RSX205L-30		TF	TE25	30	30	2	60	0.49	2	0.2	30			YES
8	RSX301L-30		DD	TE25	30	30	3	70	0.42	3	0.2	30			YES
低I_R型															
9	RBLQ2VWM10	*	TF	TR	100	100	2	30	0.77	2	0.01	100	(PMDE)		YES
10	RBLQ2MM10	*	TF	TR	100	100	2	30	0.77	2	0.01	100	(PMDU) 〈SOD-123FL〉 [SC-109B]		YES
11	RBLQ3LAM10	*	TF	TR	100	100	3	80	0.64	3	0.03	100	(PMDTM) 〈SOD-128〉		YES
超低I_R型															
12	New RSX068MP2S	*	–	TR	200	200	2	50	0.89	2	0.0001	200	(PMDUP) 〈SOD-123FL〉		–
13	New RSX048LAP2S	*	–	TR	200	200	3	75	0.87	3	0.0002	200	(PMDTP) 〈SOD-128〉		–
14	New RSX058LAP2S		–	TR	200	200	3	50	0.92	3	0.0001	200			–
15	New RSX088LAP2S		–	TR	200	200	5	75	0.92	5	0.0002	200			–

中功率肖特基势垒二极管(标准品)1

超低V_F型															
16	RBS1MM40A	*	–	TR	40	20	1	25	0.38	1	0.4	20	(PMDU) 〈SOD-123FL〉 [SC-109B]		–
17	RBS2MM40A		–	TR	40	20	2	25	0.48	2	0.4	20			–
18	RBS2MM40B		–	TR	40	20	2	35	0.41	2	0.5	20			–
19	RBS2MM40C		–	TR	40	20	2	45	0.39	2	0.6	20			–
20	RBS3MM40A		–	TR	40	20	3	35	0.49	3	0.5	20			–
21	RBS3MM40B		–	TR	40	20	3	45	0.45	3	0.6	20			–
22	RBS1LAM40A	*	–	TR	40	20	1	40	0.38	1	0.4	20	(PMDTM) 〈SOD-128〉		–
23	RBS2LAM40A		–	TR	40	20	2	40	0.48	2	0.4	20			–
24	RBS2LAM40B		–	TR	40	20	2	50	0.41	2	0.5	20			–
25	RBS2LAM40C		–	TR	40	20	2	80	0.37	2	0.8	20			–
26	RBS3LAM40A		–	TR	40	20	3	50	0.49	3	0.5	20			–
27	RBS3LAM40B		–	TR	40	20	3	60	0.45	3	0.6	20			–
28	RBS3LAM40C		–	TR	40	20	3	80	0.4	3	0.8	20			–
29	RBS5LAM40A		–	TR	40	20	5	80	0.49	5	0.8	20			–
低V_F型															
30	RBR1VWM30A	*	TF	TR	30	30	1	30	0.48	1	0.05	30	(PMDE)		YES
31	RBR2VWM30A		TF	TR	30	30	2	30	0.53	2	0.05	30			YES
32	RBR1VWM40A		TF	TR	40	40	1	20	0.52	1	0.05	40			YES
33	RBR2VWM40A		TF	TR	40	40	2	20	0.62	2	0.05	40			YES
34	RBR1VWM60A		TF	TR	60	60	1	20	0.53	1	0.075	60			YES
35	RBR2VWM60A		TF	TR	60	60	2	20	0.65	2	0.075	60			YES
36	RBR1MM30A	*	TF	TR	30	30	1	30	0.48	1	0.05	30	(PMDU) 〈SOD-123FL〉 [SC-109B]		YES
37	RBR2MM30A		TF	TR	30	30	2	30	0.53	2	0.05	30			YES
38	RBR2MM30B		TF	TR	30	30	2	30	0.49	2	0.08	30			YES
39	RBR3MM30A		TF	TR	30	30	3	30	0.51	3	0.1	30			YES
40	RBR1MM40A		TF	TR	40	40	1	20	0.52	1	0.05	40			YES
41	RBR2MM40A		TF	TR	40	40	2	20	0.62	2	0.05	40			YES
42	RBR2MM40B		TF	TR	40	40	2	30	0.55	2	0.08	40			YES
43	RBR2MM40C		TF	TR	40	40	2	30	0.52	2	0.1	40			YES
44	RBR3MM40A		TF	TR	40	40	3	30	0.62	3	0.08	40			YES
45	RBR3MM40B		TF	TR	40	40	3	30	0.58	3	0.1	40			YES
46	RBR1MM60A		TF	TR	60	60	1	20	0.53	1	0.075	60			YES
47	RBR2MM60A		TF	TR	60	60	2	20	0.65	2	0.075	60			YES
48	RBR2MM60B		TF	TR	60	60	2	30	0.58	2	0.1	60			YES
49	RBR2MM60C		TF	TR	60	60	2	30	0.55	2	0.12	60			YES
50	RBR3MM60A		TF	TR	60	60	3	30	0.66	3	0.1	60			YES
51	RBR3MM60B		TF	TR	60	60	3	30	0.61	3	0.12	60			YES
52	RBR1LAM30A	*	TF	TR	30	30	1	40	0.48	1	0.05	30	(PMDTM) 〈SOD-128〉		YES
53	RBR2LAM30A		TF	TR	30	30	2	45	0.49	2	0.08	30			YES
54	RBR3LAM30A		TF	TR	30	30	3	40	0.58	3	0.05	30			YES
55	RBR3LAM30B		TF	TR	30	30	3	45	0.53	3	0.08	30			YES
56	RBR5LAM30A		TF	TR	30	30	5	75	0.54	5	0.1	30			YES
57	RBR5LAM30B		TF	TR	30	30	5	100	0.49	5	0.15	30			YES
58	RBR1LAM40A		TF	TR	40	40	1	40	0.52	1	0.05	40			YES
59	RBR2LAM40A		TF	TR	40	40	2	45	0.55	2	0.08	40			YES
60	RBR3LAM40A		TF	TR	40	40	3	40	0.69	3	0.05	40			YES
61	RBR3LAM40B		TF	TR	40	40	3	45	0.62	3	0.08	40			YES
62	RBR3LAM40C		TF	TR	40	40	3	75	0.55	3	0.1	40			YES
63	RBR5LAM40A		TF	TR	40	40	5	100	0.53	5	0.2	40			YES
64	RBR1LAM60A		TF	TR	60	60	1	40	0.53	1	0.075	60			YES
65	RBR2LAM60A		TF	TR	60	60	2	40	0.65	2	0.075	60			YES
66	RBR2LAM60B		TF	TR	60	60	2	75	0.52	2	0.15	60			YES
67	RBR3LAM60A		TF	TR	60	60	3	45	0.66	3	0.1	60			YES
68	RBR3LAM60B		TF	TR	60	60	3	75	0.56	3	0.15	60			YES
69	RBR5LAM60A		TF	TR	60	60	5	100	0.55	5	0.25	60			YES

* 一般产品的产品性能代码为空白。
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肖特基势垒二极管

肖特基势垒二极管
例: RBR1L30ADDTE25
型号 / 产品性能代码 / 包装代码

中功率肖特基势垒二极管(标准品)2

Quick Reference No.	Product No. Part No.	Grade Code General	Grade Code Automotive	Taping Code	Absolute Maximum Ratings (T_C=25°C) V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 cyc	Electrical Characteristics (T_j=25°C) V_F (V) Max	I_F (A)	I_R (mA) Max	V_R (V)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
低V_F型															
70	RBR1L30A	–	DD	TE25	30	30	1	30	0.48	1	0.05	30	DO-214AC (PMDS) 〈SMA〉		YES
71	RBR2L30A		DD	TE25	30	30	2	40	0.49	2	0.08	30			YES
72	RBR3L30A		DD	TE25	30	30	3	30	0.58	3	0.05	30			YES
73	RBR3L30B		DD	TE25	30	30	3	40	0.53	3	0.08	30			YES
74	RBR5L30A		DD	TE25	30	30	5	50	0.54	5	0.1	30			YES
75	RBR5L30B		DD	TE25	30	30	5	50	0.49	5	0.15	30			YES
76	RBR1L40A		DD	TE25	40	40	1	30	0.52	1	0.05	40			YES
77	RBR2L40A		DD	TE25	40	40	2	40	0.55	2	0.08	40			YES
78	RBR3L40A		DD	TE25	40	40	3	30	0.69	3	0.05	40			YES
79	RBR3L40B		DD	TE25	40	40	3	40	0.62	3	0.08	40			YES
80	RBR3L40C		DD	TE25	40	40	3	50	0.55	3	0.1	40			YES
81	RBR5L40A		DD	TE25	40	40	5	50	0.53	5	0.2	40			YES
82	RBR1L60A		DD	TE25	60	60	1	30	0.53	1	0.075	60			YES
83	RBR2L60A		DD	TE25	60	60	2	30	0.65	2	0.075	60			YES
84	RBR2L60B		DD	TE25	60	60	2	50	0.52	2	0.15	60			YES
85	RBR3L60A		DD	TE25	60	60	3	40	0.66	3	0.1	60			YES
86	RBR3L60B		DD	TE25	60	60	3	50	0.56	3	0.15	60			YES
87	RBR5L60A		DD	TE25	60	60	5	50	0.55	5	0.25	60			YES
88	RB160L-90	–	TF	TE25	95	90	1	30	0.73	1	0.1	90	DO-214AC (PMDS) 〈SMA〉		YES
89	RB160MM-90	*	TF	TR	90	90	1	30	0.73	1	0.1	90	(PMDU) 〈SOD-123FL〉		YES
90	RB160LAM-90	*	TF	TR	95	90	1	50	0.73	1	0.1	90	(PMDTM) 〈SOD-128〉		YES
超低I_R型															
91	RB168VWM-30	*	TF	TR	30	30	1	30	0.69	1	0.0006	30	(PMDE)		YES
92	RB068VWM-30		TF	TR	30	30	2	30	0.75	2	0.0006	30			YES
93	RB168VWM-40		TF	TR	40	40	1	30	0.69	1	0.0005	40			YES
94	RB068VWM-40		TF	TR	40	40	2	30	0.79	2	0.0005	40			YES
95	RB168VWM-60		TF	TR	60	60	1	30	0.76	1	0.0005	60			YES
96	RB068VWM-60		TF	TR	60	60	2	30	0.84	2	0.0005	60			YES
97	RB168VWM100		TF	TR	100	100	1	25	0.84	1	0.0003	100			YES
98	RB068VWM100		TF	TR	100	100	2	25	0.94	2	0.0003	100			YES
99	RB168VWM150		TF	TR	150	150	1	25	0.89	1	0.001	150			YES
100	RB068VWM150		TF	TR	150	150	2	25	0.96	2	0.001	150			YES
101	RB168MM-30	*	TF	TR	30	30	1	30	0.69	1	0.0006	30	(PMDU) 〈SOD-123FL〉 [SC-109B]		YES
102	RB068MM-30		TF	TR	30	30	2	50	0.7	2	0.0008	30			YES
103	RB168MM-40		TF	TR	40	40	1	40	0.65	1	0.00055	40			YES
104	RB068MM-40		TF	TR	40	40	2	40	0.725	2	0.00055	40			YES
105	RB168MM-60		TF	TR	60	60	1	40	0.68	1	0.0015	60			YES
106	RB068MM-60		TF	TR	60	60	2	40	0.765	2	0.0015	60			YES
107	RB168MM100		TF	TR	100	100	1	40	0.81	1	0.0004	100			YES
108	RB068MM100		TF	TR	100	100	2	40	0.87	2	0.0004	100			YES
109	RB168MM150		TF	TR	150	150	1	35	0.84	1	0.004	150			YES
110	New RB168MM200		TF	TR	200	200	1	35	0.89	1	0.00085	200			YES
111	RB168LAM-30	*	TF	TR	30	30	1	40	0.69	1	0.0006	30	(PMDTM) 〈SOD-128〉		YES
112	RB068LAM-30		TF	TR	30	30	2	50	0.7	2	0.0008	30			YES
113	RB058LAM-30		TF	TR	30	30	3	80	0.68	3	0.0025	30			YES
114	RB088LAM-30		TF	TR	30	30	5	80	0.69	5	0.0025	30			YES
115	RB168LAM-40		TF	TR	40	40	1	40	0.69	1	0.0005	40			YES
116	RB068LAM-40		TF	TR	40	40	2	50	0.69	2	0.001	40			YES
117	RB058LAM-40		TF	TR	40	40	3	90	0.69	3	0.0025	40			YES
118	RB088LAM-40		TF	TR	40	40	5	90	0.71	5	0.0036	40			YES
119	RB168LAM-60		TF	TR	60	60	1	40	0.68	1	0.0015	60			YES
120	RB068LAM-60		TF	TR	60	60	2	70	0.68	2	0.002	60			YES
121	RB058LAM-60		TF	TR	60	60	3	90	0.64	3	0.004	60			YES
122	RB088LAM-60		TF	TR	60	60	5	90	0.71	5	0.004	60			YES
123	RB168LAM100		TF	TR	100	100	1	40	0.81	1	0.0004	100			YES
124	RB068LAM100		TF	TR	100	100	2	70	0.81	2	0.0015	100			YES
125	RB058LAM100		TF	TR	100	100	3	80	0.81	3	0.003	100			YES
126	RB088LAM100		TF	TR	100	100	5	80	0.87	5	0.003	100			YES
127	RB168LAM150		TF	TR	150	150	1	50	0.84	1	0.0025	150			YES
128	RB068LAM150		TF	TR	150	150	2	70	0.81	2	0.003	150			YES
129	RB058LAM150		TF	TR	150	150	3	80	0.84	3	0.003	150			YES
130	RB088LAM150		TF	TR	150	150	5	80	0.9	5	0.003	150			YES
131	RB168L-30	–	TF	TE25	30	30	1	30	0.69	1	0.0006	30	DO-214AC (PMDS) 〈SMA〉		YES
132	RB068L-30		DD	TE25	30	30	2	60	0.7	2	0.0008	30			YES
133	RB058L-30		DD	TE25	30	30	3	90	0.68	3	0.0025	30			YES
134	RB168L-40		TF	TE25	40	40	1	50	0.65	1	0.00055	40			YES
135	RB068L-40		DD	TE25	40	40	2	50	0.69	2	0.001	40			YES
136	RB058L-40		DD	TE25	40	40	3	100	0.7	3	0.005	40			YES
137	RB168L-60		TF	TE25	60	60	1	50	0.68	1	0.0015	60			YES
138	RB068L-60		DD	TE25	60	60	2	90	0.68	2	0.002	60			YES
139	RB058L-60		DD	TE25	60	60	3	120	0.64	3	0.004	60			YES
140	RB168L100		DD	TE25	100	100	1	50	0.81	1	0.0004	100			YES
141	RB068L100		DD	TE25	100	100	2	110	0.79	2	0.003	100			YES
142	RB168L150		DD	TE25	150	150	1	50	0.84	1	0.004	150			YES
143	RB068L150		DD	TE25	150	150	2	90	0.81	2	0.003	150			YES
144	RB058L150		DD	TE25	150	150	3	90	0.85	3	0.003	150			YES

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肖特基势垒二极管

●功率肖特基势垒二极管(高效率型)一览表

V_R (V)	I_O (A)	Surface Mount type							
									
		TO-277A (TO-277GE)		(TO-252GE) 〈DPAK〉 [SC-63]		TO-252 〈DPAK〉 [SC-63]		TO-263L (LPDL) 〈D2PAK〉 [SC-83]	
		Low I_R type		Low I_R type		Low I_R type		Low I_R type	
100	10	RBLQ10RSM10	1						
	20			RBLQ20BGE10	2	RBLQ20BM10	3	New RBLQ20NL10S New RBLQ20NL10C	4 6
	30							New RBLQ30NL10S	5

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

●功率肖特基势垒二极管(标准品)一览表1

V_R (V)	I_O (A)	Surface Mount type																	
																			
		TO-277A (TO-277GE)						(TO-252GE) 〈DPAK〉 [SC-63]						TO-252 〈DPAK〉 [SC-63]					
		Low V_F type		Low I_R type		Ultra Low I_R type		Low V_F type		Low I_R type		Ultra Low I_R type		Low V_F type		Low I_R type		Ultra Low I_R type	
30	5											RB078BGE30S	99					RB078BM30S	114
	6											RB098BGE-30	102					RB098BM-30	115
	10							RBR10BGE30A	10			RB088BGE-30	103	RBR10BM30A	19			RB088BM-30	116
	15							RBR15BGE30A	11					RBR15BM30A	20				
	20							RBR20BGE30A	12					RBR20BM30A	21				
40	3	New RBR3RSM40B	7																
	5	New RBR5RSM40B	8																
	6											RB098BGE-40	104					RB098BM-40	117
	10	New RBR10RSM40B	9					RBR10BGE40A	13			RB088BGE-40	105	RBR10BM40A	22			RB088BM-40	118
	15							RBR15BGE40A	14					RBR15BM40A	23				
	20							RBR20BGE40A	15					RBR20BM40A	24				
45	10									RBQ10BGE45A	55					RBQ10BM45A	63		
	15									RBQ15BGE45A	56					RBQ15BM45A	64		
	20									RBQ20BGE45A	57					RBQ20BM45A	65		
60	6											RB098BGE-60	106					RB098BM-60	119
	10							RBR10BGE60A	16			RB088BGE-60	107	RBR10BM60A	25			RB088BM-60	120
	15							RBR15BGE60A	17					RBR15BM60A	26				
	20							RBR20BGE60A	18					RBR20BM60A	27				
65	3			New RBQ3RSM65B	49														
	5			New RBQ5RSM65B	50														
	10			New RBQ10RSM65B	51					RBQ10BGE65A	58					RBQ10BM65A	66		
	15									RBQ15BGE65A	59					RBQ15BM65A	67		
	20									RBQ20BGE65A	60					RBQ20BM65A	68		
100	3			New RBQ3RSM10B	52	New RB058RSM10S	91												
	5			New RBQ5RSM10B	53	New RB078RSM10S	92												
	6											RB098BGE100	108					RB098BM100	121
	8					New RB048RSM10S	93												
	10			New RBQ10RSM10B	54	New RB088RSM10S	94			RBQ10BGE10A	61	RB088BGE100	109			RBQ10BM100A	69	RB088BM100	122
	15									RBQ15BGE10A	62					RBQ15BM100A	70		
	20															RBQ20BM100A	71		
150	3					New RB058RSM15S	95												
	5					New RB078RSM15S	96												
	6											RB098BGE150	110					RB098BM150	123
	8					New RB048RSM15S	97												
	10					New RB088RSM15S	98					RB088BGE150	111					RB088BM150	124
200	3											New RSX058BGE2S New RSX078BGE2S	112 113					New RSX058BM2S	100
	5																	New RSX078BM2S	101
	10																	RB088BM200	125
	20																	RB218BM200	126

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

肖特基势垒二极管

●功率肖特基势垒二极管(标准品)一览表2

V_R (V)	I_O (A)	Surface Mount type									Through Hole type								
																			
		(TO-263S) 〈D2PAK〉						TO-263L (LPDL) 〈D2PAK〉 [SC-83]			(TO-220FN) <3pin>						(TO-220FN) <2pin>		
		Low V_F type		Low I_R type		Ultra Low I_R type		Low I_R type			Low V_F type		Low I_R type		Ultra Low I_R type		Low I_R type		
30	10	RBR10NS30A	28			RB088NS-30	127				RBR10T30A	40			RB088T-30	150			
	20	RBR20NS30A	29			RB218NS-30	128				RBR20T30A	41			RB218T-30	151			
	30	RBR30NS30A	30			RB228NS-30	129				RBR30T30A	42			RB228T-30	152			
	40	RBR40NS30A	31			RB238NS-30	130								RB238T-30	153			
40	10	RBR10NS40A	32			RB088NS-40	131				RBR10T40A	43			RB088T-40	154			
	20	RBR20NS40A	33			RB218NS-40	132				RBR20T40A	44			RB218T-40	155			
	30	RBR30NS40A	34			RB228NS-40	133				RBR30T40A	45			RB228T-40	156			
	40	RBR40NS40A	35			RB238NS-40	134								RB238T-40	157			
45	10			RBQ10NS45A	72			☆RBQ10NL45B	82				RBQ10T45A	84					
	16							☆RBQ16NL45B	83										
	20			RBQ20NS45A	73								RBQ20T45A	85					
	30			RBQ30NS45A RBQ30NS45B	74 81								RBQ30T45A	86			RBQ30TB45B	90	
60	10	RBR10NS60A	36			RB088NS-60 RB218NS-60	135 136				RBR10T60A	46			RB088T-60 RB218T-60	158 159			
	20	RBR20NS60A	37			RB228NS-60	137				RBR20T60A	47			RB228T-60	160			
	30	RBR30NS60A	38			RB238NS-60	138				RBR30T60A	48			RB238T-60	161			
	40	RBR40NS60A	39																
65	10			RBQ10NS65A	75								RBQ10T65A	87					
	20			RBQ20NS65A	76								RBQ20T65A	88					
	30			RBQ30NS65A	77								RBQ30T65A	89					
100	10			RBQ10NS100A	78	RB088NS100	139								RB088T100	162			
	20			RBQ20NS100A	79	RB218NS100	140								RB218T100	163			
	30			RBQ30NS100A	80	RB228NS100 RB298NS100	141 142								RB228T100 RB298T100	164 165			
	40					RB238NS100	143								RB238T100	166			
150	10					RB088NS150	144								RB088T150	167			
	20					RB218NS150	145								RB218T150	168			
	30					RB228NS150	146								RB228T150	169			
	40					RB238NS150	147								RB238T150	170			
200	10					RB088NS200	148												
	20					RB218NS200	149												

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

☆: 开发中

肖特基势垒二极管

肖特基势垒二极管
例: R B L Q 2 0 B M 1 0 F H T L
型号 产品性能代码 包装代码

功率肖特基势垒二极管(高效率型)

Quick Reference No.	Product No. Part No.	Grade Code General	Grade Code Automotive	Taping Code	Absolute Maximum Ratings (T_C=25°C) V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1 ∿	Electrical Characteristics (T_j=25°C) V_F (V) Max	I_F (A)	I_R (mA) Max	V_R (V)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
低I_R型															
1	RBLQ10RSM10	*	TF	TL	100	100	10	200	0.67	10	0.08	100	TO-277A (TO-277GE)		YES
2	RBLQ20BGE10	*	–	TL	100	100	20	150	0.86	20	0.08	100	(TO-252GE) 〈DPAK〉 [SC-63]		–
3	RBLQ20BM10	–	FH	TL	100	100	20	150	0.86	20	0.08	100	TO-252 〈DPAK〉 [SC-63]		YES
4	New RBLQ20NL10S	*	FH	TL	100	100	20	200	0.86	20	0.08	100	TO-263L (LPDL) 〈D2PAK〉 [SC-83]		YES
5	New RBLQ30NL10S		FH	TL	100	100	30	200	0.86	30	0.15	100			YES
6	New RBLQ20NL10C		FH	TL	100	100	20	150	0.71	10	0.07	100			YES
功率肖特基势垒二极管(标准品)1															
低V_F型															
7	New RBR3RSM40B	*	TF	TL1	40	40	3	150	0.47	3	0.12	40	TO-277A (TO-277GE)		YES
8	New RBR5RSM40B		TF	TL1	40	40	5	100	0.53	5	0.12	40			YES
9	New RBR10RSM40B		TF	TL1	40	40	10	150	0.54	5	0.3	45			YES
10	RBR10BGE30A	*	–	TL	30	30	10	50	0.55	5	0.1	30	(TO-252GE) 〈DPAK〉 [SC-63]		–
11	RBR15BGE30A		–	TL	30	30	15	100	0.51	7.5	0.2	30			–
12	RBR20BGE30A		–	TL	30	30	20	100	0.51	10	0.3	30			–
13	RBR10BGE40A		–	TL	40	40	10	50	0.62	5	0.12	40			–
14	RBR15BGE40A		–	TL	40	40	15	100	0.55	7.5	0.24	40			–
15	RBR20BGE40A		–	TL	40	40	20	100	0.55	10	0.36	40			–
16	RBR10BGE60A		–	TL	60	60	10	50	0.65	5	0.2	60			–
17	RBR15BGE60A		–	TL	60	60	15	100	0.58	7.5	0.4	60			–
18	RBR20BGE60A		–	TL	60	60	20	100	0.59	10	0.6	60			–
19	RBR10BM30A	–	FH	TL	30	30	10	50	0.55	5	0.1	30	TO-252 〈DPAK〉 [SC-63]		YES
20	RBR15BM30A		FH	TL	30	30	15	100	0.51	7.5	0.2	30			YES
21	RBR20BM30A		FH	TL	30	30	20	100	0.51	10	0.3	30			YES
22	RBR10BM40A		FH	TL	40	40	10	50	0.62	5	0.12	40			YES
23	RBR15BM40A		FH	TL	40	40	15	100	0.55	7.5	0.24	40			YES
24	RBR20BM40A		FH	TL	40	40	20	100	0.55	10	0.36	40			YES
25	RBR10BM60A		FH	TL	60	60	10	50	0.65	5	0.2	60			YES
26	RBR15BM60A		FH	TL	60	60	15	100	0.58	7.5	0.4	60			YES
27	RBR20BM60A		FH	TL	60	60	20	100	0.59	10	0.6	60			YES
28	RBR10NS30A	*	FH	TL	30	30	10	50	0.55	5	0.1	30	(TO-263S) 〈D2PAK〉		YES
29	RBR20NS30A		FH	TL	30	30	20	100	0.55	10	0.2	30			YES
30	RBR30NS30A		FH	TL	30	30	30	100	0.55	15	0.3	30			YES
31	RBR40NS30A		FH	TL	30	30	40	100	0.52	20	0.6	30			YES
32	RBR10NS40A		FH	TL	40	40	10	50	0.62	5	0.12	40			YES
33	RBR20NS40A		FH	TL	40	40	20	100	0.62	10	0.24	40			YES
34	RBR30NS40A		FH	TL	40	40	30	100	0.62	15	0.36	40			YES
35	RBR40NS40A		FH	TL	40	40	40	100	0.55	20	0.43	40			YES
36	RBR10NS60A		FH	TL	60	60	10	50	0.65	5	0.2	60			YES
37	RBR20NS60A		FH	TL	60	60	20	100	0.64	10	0.4	60			YES
38	RBR30NS60A		FH	TL	60	60	30	100	0.67	15	0.6	60			YES
39	RBR40NS60A		FH	TL	60	60	40	100	0.6	20	0.8	60			YES
40	RBR10T30A	NZ	–	C9	30	30	10	50	0.55	5	0.1	30	(TO-220FN) <3pin>		–
41	RBR20T30A	NZ	–	C9	30	30	20	100	0.55	10	0.2	30			–
42	RBR30T30A	NZ	–	C9	30	30	30	100	0.55	15	0.3	30			–
43	RBR10T40A	NZ	–	C9	40	45	10	50	0.62	5	0.12	40			–
44	RBR20T40A	NZ	–	C9	40	45	20	100	0.62	10	0.24	40			–
45	RBR30T40A	NZ	–	C9	40	45	30	100	0.62	15	0.36	40			–
46	RBR10T60A	NZ	–	C9	60	60	10	50	0.65	5	0.2	60			–
47	RBR20T60A	NZ	–	C9	60	60	20	100	0.64	10	0.4	60			–
48	RBR30T60A	NZ	–	C9	60	60	30	100	0.67	15	0.6	60			–

* 一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io (1个元件)、1/2Io(2个元件)。
*2 每个元件的规格。
注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

肖特基势垒二极管

肖特基势垒二极管
例: R B Q 1 0 B M 4 5 A F H T L
型号 产品性能代码 包装代码

功率肖特基势垒二极管(标准品)2

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25°C)				Electrical Characteristics (T_j=25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1	V_F (V) Max	I_F (A)	I_R (mA) Max	V_R (V)			
		General	Automotive												
低I_R型															
49	New RBQ3RSM65B	*	TF	TL1	65	65	3	100	0.57	3	0.09	65	TO-277A (TO-277GE)		YES
50	New RBQ5RSM65B		TF	TL1	65	65	5	100	0.66	5	0.09	65			YES
51	New RBQ10RSM65B		TF	TL1	65	65	10	150	0.67	10	0.15	65			YES
52	New RBQ3RSM10B		–	TL1	100	100	3	100	0.70	3	0.08	100			–
53	New RBQ5RSM10B		–	TL1	100	100	5	150	0.70	5	0.14	100			–
54	New RBQ10RSM10B		–	TL1	100	100	10	200	0.70	10	0.25	100			–
55	RBQ10BGE45A	*	–	TL	45	45	10	50	0.65	5	0.07	45	(TO-252GE) 〈DPAK〉 [SC-63]		–
56	RBQ15BGE45A		–	TL	45	45	15	100	0.59	7.5	0.14	45			–
57	RBQ20BGE45A		–	TL	45	45	20	100	0.59	10	0.2	45			–
58	RBQ10BGE65A		–	TL	65	65	10	50	0.69	5	0.07	65			–
59	RBQ15BGE65A		–	TL	65	65	15	100	0.63	7.5	0.14	65			–
60	RBQ20BGE65A		–	TL	65	65	20	100	0.63	10	0.2	65			–
61	RBQ10BGE10A		–	TL	100	100	10	100	0.77	5	0.08	100			–
62	RBQ15BGE10A		–	TL	100	100	15	100	0.71	7.5	0.14	100			–
63	RBQ10BM45A	–	FH	TL	45	45	10	50	0.65	5	0.07	45	TO-252 〈DPAK〉 [SC-63]		YES
64	RBQ15BM45A		FH	TL	45	45	15	100	0.59	7.5	0.14	45			YES
65	RBQ20BM45A		FH	TL	45	45	20	100	0.59	10	0.2	45			YES
66	RBQ10BM65A		FH	TL	65	65	10	50	0.69	5	0.07	65			YES
67	RBQ15BM65A		FH	TL	65	65	15	100	0.63	7.5	0.14	65			YES
68	RBQ20BM65A		FH	TL	65	65	20	100	0.63	10	0.2	65			YES
69	RBQ10BM100A		FH	TL	100	100	10	100	0.77	5	0.08	100			YES
70	RBQ15BM100A		FH	TL	100	100	15	100	0.71	7.5	0.14	100			YES
71	RBQ20BM100A	*	FH	TL	100	100	20	100	0.69	10	0.2	100			YES
72	RBQ10NS45A		FH	TL	45	45	10	100	0.65	5	0.07	45	(TO-263S) 〈D2PAK〉		YES
73	RBQ20NS45A		FH	TL	45	45	20	100	0.65	10	0.14	45			YES
74	RBQ30NS45A		FH	TL	45	45	30	100	0.65	15	0.2	45			YES
75	RBQ10NS65A		FH	TL	65	65	10	100	0.69	5	0.07	65			YES
76	RBQ20NS65A		FH	TL	65	65	20	100	0.69	10	0.14	65			YES
77	RBQ30NS65A		FH	TL	65	65	30	100	0.69	15	0.2	65			YES
78	RBQ10NS100A		FH	TL	100	100	10	100	0.77	5	0.08	100			YES
79	RBQ20NS100A		FH	TL	100	100	20	100	0.77	10	0.14	100			YES
80	RBQ30NS100A		FH	TL	100	100	30	100	0.77	15	0.2	100			YES
81	RBQ30NS45B		FH	TL	45	45	30	100	0.59	30	0.7	45			YES
82	☆RBQ10NL45B		FHH	TL	45	45	10	150	0.62	10	0.1	45	TO-263L (LPDL) 〈D2PAK〉 [SC-83]		YES
83	☆RBQ16NL45B		FHH	TL	45	45	16	150	0.61	16	0.1	45			YES
84	RBQ10T45A	NZ	–	C9	45	45	10	100	0.65	5	0.07	45	(TO-220FN) <3pin>		–
85	RBQ20T45A	NZ	–	C9	45	45	20	100	0.65	10	0.14	45			–
86	RBQ30T45A	NZ	–	C9	45	45	30	100	0.65	15	0.2	45			–
87	RBQ10T65A	NZ	–	C9	65	65	10	100	0.69	5	0.07	65			–
88	RBQ20T65A	NZ	–	C9	65	65	20	100	0.69	10	0.14	65			–
89	RBQ30T65A	NZ	–	C9	65	65	30	100	0.69	15	0.2	65			–
90	RBQ30TB45B	NZ	–	C9	45	45	30	100	0.59	30	0.7	45	(TO-220FN) <2pin>		–
超低I_R型															
91	New RB058RSM10S	*	TF	TL1	100	100	3	120	0.81	3	0.0013	100	TO-277A (TO-277GE)		YES
92	New RB078RSM10S		TF	TL1	100	100	5	120	0.84	5	0.0013	100			YES
93	New RB048RSM10S		TF	TL1	100	100	8	160	0.84	8	0.0034	100			YES
94	New RB088RSM10S		TF	TL1	100	100	10	220	0.84	10	0.0037	100			YES
95	New RB058RSM15S		TF	TL1	150	150	3	120	0.83	3	0.0021	150			YES
96	New RB078RSM15S		TF	TL1	150	150	5	120	0.87	5	0.0021	150			YES
97	New RB048RSM15S		TF	TL1	150	150	8	160	0.88	8	0.0037	150			YES
98	New RB088RSM15S		TF	TL1	150	150	10	220	0.88	10	0.0045	150			YES

* 一般产品的产品性能代码为空白。
☆：开发中
*1 每个元件的平均输出电流为Io (1个元件)、1/2Io(2个元件)。
*2 每个元件的规格。
注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

肖特基势垒二极管
例: RB078BM30S FH TL
型号 产品性能代码 包装代码

功率肖特基势垒二极管(标准品)3

Quick Reference No.	Product No. Part No.	Grade Code General	Grade Code Automotive	Taping Code	Absolute Maximum Ratings (T_C=25°C) V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1 ∿	Electrical Characteristics (T_j=25° C) V_F (V) Max	I_F (A)	I_R (mA) Max	V_R (V)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
超低I_R型															
99	RB078BGE30S	*	—	TL	35	30	5	50	0.72	5	0.005	30	(TO-252GE) 〈DPAK〉 [SC-63]		—
100	New RSX058BM2S		FH	TL	200	200	3	50	0.87	3	0.0002	200	TO-252 〈DPAK〉 [SC-63]		YES
101	New RSX078BM2S		FH	TL	200	200	5	50	0.92	5	0.0002	200			YES
102	RB098BGE-30		—	TL	35	30	6	50	0.72	3	0.0015	30	(TO-252GE) 〈DPAK〉 [SC-63]		—
103	RB088BGE-30		—	TL	35	30	10	50	0.72	5	0.003	30			—
104	RB098BGE-40		—	TL	45	40	6	50	0.77	3	0.0015	40			—
105	RB088BGE-40		—	TL	45	40	10	50	0.77	5	0.003	40			—
106	RB098BGE-60		—	TL	60	60	6	50	0.83	3	0.0015	60			—
107	RB088BGE-60		—	TL	60	60	10	50	0.83	5	0.003	60			—
108	RB098BGE100		—	TL	110	100	6	100	0.77	3	0.003	100			—
109	RB088BGE100		—	TL	100	100	10	50	0.87	5	0.005	100			—
110	RB098BGE150		—	TL	150	150	6	100	0.83	3	0.007	150			—
111	RB088BGE150		—	TL	150	150	10	50	0.88	5	0.015	150			—
112	New RSX058BGE2S		—	TL	200	200	3	50	0.87	3	0.0002	200			—
113	New RSX078BGE2S		—	TL	200	200	5	50	0.92	5	0.0002	200			—
114	RB078BM30S	—	FH	TL	35	30	5	50	0.72	5	0.005	30	TO-252 〈DPAK〉 [SC-63]		YES
115	RB098BM-30		FH	TL	35	30	6	50	0.72	3	0.0015	30			YES
116	RB088BM-30		FH	TL	35	30	10	50	0.72	5	0.003	30			YES
117	RB098BM-40		FH	TL	45	40	6	50	0.77	3	0.0015	40			YES
118	RB088BM-40		FH	TL	45	40	10	50	0.77	5	0.003	40			YES
119	RB098BM-60		FH	TL	60	60	6	50	0.83	3	0.0015	60			YES
120	RB088BM-60		FH	TL	60	60	10	50	0.83	5	0.003	60			YES
121	RB098BM100		FH	TL	110	100	6	100	0.77	3	0.003	100			YES
122	RB088BM100		FH	TL	100	100	10	100	0.87	5	0.005	100			YES
123	RB098BM150		FH	TL	150	150	6	100	0.83	3	0.007	150			YES
124	RB088BM150		FH	TL	150	150	10	100	0.88	5	0.015	150			YES
125	RB088BM200		FH	TL	200	200	10	100	0.88	5	0.007	200			YES
126	RB218BM200		FH	TL	200	200	20	100	0.88	10	0.01	200			YES
127	RB088NS-30	*	FH	TL	35	30	10	50	0.72	5	0.003	30	(TO-263S) 〈D2PAK〉		YES
128	RB218NS-30		FH	TL	35	30	20	100	0.72	10	0.005	30			YES
129	RB228NS-30		FH	TL	35	30	30	100	0.72	15	0.01	30			YES
130	RB238NS-30		FH	TL	35	30	40	100	0.75	20	0.012	30			YES
131	RB088NS-40		FH	TL	45	40	10	50	0.77	5	0.003	40			YES
132	RB218NS-40		FH	TL	45	40	20	100	0.77	10	0.005	40			YES
133	RB228NS-40		FH	TL	45	40	30	100	0.77	15	0.01	40			YES
134	RB238NS-40		FH	TL	45	40	40	100	0.8	20	0.012	40			YES
135	RB088NS-60		FH	TL	60	60	10	50	0.83	5	0.003	60			YES
136	RB218NS-60		FH	TL	60	60	20	100	0.83	10	0.005	60			YES
137	RB228NS-60		FH	TL	60	60	30	100	0.83	15	0.01	60			YES
138	RB238NS-60		FH	TL	60	60	40	100	0.86	20	0.012	60			YES
139	RB088NS100		FH	TL	110	100	10	100	0.87	5	0.005	100			YES
140	RB218NS100		FH	TL	110	100	20	100	0.87	10	0.007	100			YES
141	RB228NS100		FH	TL	110	100	30	100	0.87	5	0.005	100			YES
142	RB298NS100		FH	TL	110	100	30	100	0.87	15	0.01	100			YES
143	RB238NS100		FH	TL	110	100	40	100	0.86	20	0.02	100			YES
144	RB088NS150		FH	TL	150	150	10	50	0.88	5	0.015	150			YES
145	RB218NS150		FH	TL	150	150	20	100	0.88	10	0.02	150			YES
146	RB228NS150		FH	TL	150	150	30	100	0.88	15	0.025	150			YES
147	RB238NS150		FH	TL	150	150	40	100	0.87	20	0.03	150			YES
148	RB088NS200		FH	TL	200	200	10	100	0.88	5	0.007	200			YES
149	RB218NS200		FH	TL	200	200	20	100	0.88	10	0.01	200			YES
150	RB088T-30	NZ	—	C9	35	30	10	50	0.72	5	0.003	30	(TO-220FN) <3pin>		—
151	RB218T-30	NZ	—	C9	35	30	20	100	0.72	10	0.005	30			—
152	RB228T-30	NZ	—	C9	35	30	30	100	0.72	15	0.01	30			—
153	RB238T-30	NZ	—	C9	35	30	40	100	0.75	20	0.012	30			—
154	RB088T-40	NZ	—	C9	45	40	10	50	0.77	5	0.003	40			—
155	RB218T-40	NZ	—	C9	45	40	20	100	0.77	10	0.005	40			—
156	RB228T-40	NZ	—	C9	45	40	30	100	0.77	15	0.01	40			—
157	RB238T-40	NZ	—	C9	45	40	40	100	0.8	20	0.012	40			—
158	RB088T-60	NZ	—	C9	60	60	10	50	0.83	5	0.003	60			—
159	RB218T-60	NZ	—	C9	60	60	20	100	0.83	10	0.005	60			—
160	RB228T-60	NZ	—	C9	60	60	30	100	0.83	15	0.01	60			—
161	RB238T-60	NZ	—	C9	60	60	40	100	0.86	20	0.012	60			—
162	RB088T100	NZ	—	C9	110	100	10	100	0.87	5	0.005	100			—
163	RB218T100	NZ	—	C9	110	100	20	100	0.87	10	0.007	100			—
164	RB228T100	NZ	—	C9	110	100	30	100	0.87	5	0.005	100			—
165	RB298T100	NZ	—	C9	110	100	30	100	0.87	15	0.01	100			—
166	RB238T100	NZ	—	C9	110	100	40	100	0.86	20	0.02	100			—
167	RB088T150	NZ	—	C9	150	150	10	50	0.88	5	0.015	150			—
168	RB218T150	NZ	—	C9	150	150	20	100	0.88	10	0.02	150			—
169	RB228T150	NZ	—	C9	150	150	30	100	0.88	15	0.025	150			—
170	RB238T150	NZ	—	C9	150	150	40	100	0.87	20	0.03	150			—

* 一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io (1个元件)、1/2Io(2个元件)。
*2 每个元件的规格。
注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

快速恢复二极管

肖特基势垒二极管
例: RF01VM2S FH TE-17
型号 产品性能代码 包装代码

●小信号/中功率快速恢复二极管一览表

V_R (V)	I_O (A)	Surface Mount type																			
		1608 Size		2512 Size		2514 Size				2513 size		3516 Size		4725 Size		5026 size		2928 Size	
		SOD-523 (EMD2) [SC-79]		SOD-323FL (UMD2) [SC-90A]		SOD-323HE (TUMD2M) [SC-108B]		SOD-323HE (TUMD2SM)		(PMDE)		(PMDU) ⟨SOD-123FL⟩ [SC-109B]		(PMDTM) ⟨SOD-128⟩		DO-214AC (PMDS) ⟨SMA⟩		SOT-457T (TSMD6)	
100	0.5					RF05VAM1S RF05VYM1S	3 4												
200	0.4																	RF04UA2D	36
	0.5					RF05VAM2S RF05VYM2S	5 6					RFC02MM2S	11						
	0.7											RF071MM2S	12						
	0.8											RF081MM2S	13						
	1									New RFN1VWM2S	9			RF101LAM2S	14	RF101L2S	26		
	1.1													RF081LAM2S	15	RF081L2S	27		
	2									New RFN2VWM2S	10			RF201LAM2S RF202LAM2S	16 17	RF201L2S	28		
	3													RF302LAM2S	18				
250	0.1			RF01VM2S	2														
400	1													RF071LAM4S RF101LAM4S	19 20	RF071L4S RF101L4S	29 30		
	1.5													RF201LAM4S RFN2LAM4S	21 22	RF201L4S RFN2L4S	31 32		
450	0.1	RFU01SM4S	1																
600	0.2							RFU02VSM6S	7										
	0.8													RFN1LAM6S	23	RFN1L6S	33		
	1.5													RFN2LAM6S	24	RFN2L6S	34		
700	0.8													RFN1LAM7S	25	RFN1L7S	35		
800	0.2							RFU02VSM8S	8										

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

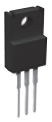
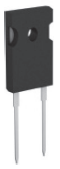
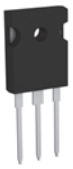
小信号/中功率快速恢复二极管

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25°C or Tl=25°C)				Electrical Characteristics (T_j=25°C)*1							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	V_F (V) Max	I_F (A)	I_R (μA) Max	V_R (V)	trr (ns) Max	I_F (A)	I_R (A)			
		General	Automotive															
1	RFU01SM4S	*	—	T2R	450	450	0.1	1	1.8	0.1	10	450	35	0.1	0.1	SOD-523 (EMD2) [SC-79]		—
2	RF01VM2S		FH	TE-17	250	250	0.1	1	1.2	0.1	10	250	50	*2		SOD-323FL (UMD2) [SC-90A]		YES
3	RF05VAM1S	—	—	TR	100	100	0.5	6	0.98	0.5	10	100	25	0.5	1	SOD-323HE (TUMD2M) [SC-108B]		—
4	RF05VYM1S		FH	TR	100	100	0.5	6	0.98	0.5	10	100	25	0.5	1			YES
5	RF05VAM2S	*	—	TR	200	200	0.5	6	0.98	0.5	10	200	25	0.5	1			—
6	RF05VYM2S	—	FH	TR	200	200	0.5	6	0.98	0.5	10	200	25	0.5	1			YES
7	RFU02VSM6S	—	—	TR	600	600	0.2	1	2.2	0.2	10	600	35	0.1	0.1	SOD-323HE (TUMD2SM)		—
8	RFU02VSM8S		—	TR	800	800	0.2	1	3	0.2	10	800	35	0.1	0.1			—
9	New RFN1VWM2S		TF	TR	200	200	1	20	0.93	1	1	200	25	0.5	1	(PMDE)		YES
10	New RFN2VWM2S		TF	TR	200	200	2	20	0.99	2	1	200	25	0.5	1			YES
11	RFC02MM2S		TF	TR	200	200	0.5	10	0.95	0.5	1	200	35	0.1	0.2	(PMDU) ⟨SOD-123FL⟩ [SC-109B]		YES
12	RF071MM2S		TF	TR	200	200	0.7	15	0.85	0.7	10	200	25	0.5	1			YES
13	RF081MM2S		TF	TR	200	200	0.8	20	0.95	0.8	10	200	25	0.5	1			YES
14	RF101LAM2S		TF	TR	200	200	1	20	0.87	1	10	200	25	0.5	1	(PMDTM) ⟨SOD-128⟩		YES
15	RF081LAM2S		TF	TR	200	200	1.1	25	0.98	1	10	200	25	0.5	1			YES
16	RF201LAM2S	*	TF	TR	200	200	2	20	0.87	2	10	200	25	0.5	1			YES
17	RF202LAM2S		TF	TR	200	200	2	20	0.93	2	10	200	25	0.5	1			YES
18	RF302LAM2S		TF	TR	200	200	3	20	0.92	3	10	200	25	0.5	1			YES
19	RF071LAM4S		TF	TR	400	400	1	15	1.25	0.7	10	400	25	0.5	1			YES
20	RF101LAM4S		TF	TR	400	400	1	25	1.25	1	10	400	25	0.5	1			YES
21	RF201LAM4S		TF	TR	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
22	RFN2LAM4S		TF	TR	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
23	RFN1LAM6S		TF	TR	600	600	0.8	15	1.45	0.8	1	600	35	0.5	1			YES
24	RFN2LAM6S		TF	TR	600	600	1.5	40	1.55	1.5	1	600	35	0.5	1			YES
25	RFN1LAM7S		TF	TR	700	700	0.8	15	1.5	0.8	1	700	80	0.5	1			YES
26	RF101L2S	—	DD	TE25	200	200	1	20	0.87	1	10	200	25	0.5	1	DO-214AC (PMDS) ⟨SMA⟩		YES
27	RF081L2S		TF	TE25	200	200	1.1	25	0.98	1	10	200	25	0.5	1			YES
28	RF201L2S		DD	TE25	200	200	2	20	0.87	2	10	200	25	0.5	1			YES
29	RF071L4S		TF	TE25	400	400	1	15	1.25	0.7	10	400	25	0.5	1			YES
30	RF101L4S		TF	TE25	400	400	1	25	1.25	1	10	400	25	0.5	1			YES
31	RF201L4S		DD	TE25	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
32	RFN2L4S		DD	TE25	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
33	RFN1L6S		DD	TE25	600	600	0.8	15	1.45	0.8	1	600	35	0.5	1			YES
34	RFN2L6S		DD	TE25	600	600	1.5	40	1.55	1.5	1	600	35	0.5	1			YES
35	RFN1L7S		DD	TE25	700	700	0.8	15	1.5	0.8	1	700	80	0.5	1			YES
36	RF04UA2D	*	FH	TR	200	200	0.4	1	0.98	0.2	10	200	25	0.5	1	SOT-457T (TSMD6)		YES

* 一般产品的产品性能代码为空白。
*1 每个元件的规格。 *2 V_R=6V, I_F=10mA, Irr=0.1×I_R
注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

快速恢复二极管

●功率快速恢复二极管一览表

V_R (V)	I_O (A)	Surface Mount type						Through Hole type													
																					
		(TO-252GE) 〈DPAK〉 [SC-63]		TO-252 〈DPAK〉 [SC-63]		(TO-263S) 〈D2PAK〉		(TO-220FN) <2pin>		(TO-220FN) <3pin>		(TO-220NFM)		(TO-220AC)		(TO-220ACFP)		TO-247-2L (TO-247GE-2L)		TO-247-3L (TO-247GE-3L)	
200	3	RF301BGE2S RFN3BGE2S	23 24	RF301BM2S RFN3BM2S	38 39																
	5	RF501BGE2S RFN5BGE2S	25 26	RF501BM2S RFN5BM2S	40 41																
	6	RF601BGE2D RFN6BGE2D	1 2	RF601BM2D RFN6BM2D	3 4					RF601T2D RFN6T2D	10 11										
	10					RF1001NS2D	5			RF1001T2D RFN10T2D	12 13										
	16					RF1601NS2D	6			RF1601T2D RFN16T2D	14 15										
	20					RF2001NS2D	7			RF2001T2D RFN20T2D	16 17										
300	20					RF2001NS3D	8			RF2001T3D	18	RF1501TF3S	71								
350	5	RFN5BGE3S	27	RFN5BM3S	42																
	10	RFN10BGE3S	36	RFN10BM3S	51	RFN10NS3S	53														
	20					RFN20NS3S RFUH25NS3S RFUH20NS3S	54 55 56	RFUH25TB3S RFUH20TB3S	65 66												
430	10					RFN10NS4S RFUH10NS4S	57 58	RFN10TB4S RFUH10TB4S	67 68												
	20					RFN20NS4S RFUH20NS4S	59 60	RFN20TB4S RFUH20TB4S	69 70												
600	3	RFN3BGE6S RF305BGE6S	28 29	RFN3BM6S RF305BM6S	43 44																
	5	RFNL5BGE6S RFN5BGE6S RF505BGE6S RFV5BGE6S	30 31 32 33	RFNL5BM6S RFN5BM6S RF505BM6S RFV5BM6S	45 46 47 48							RFN5TF6S RF505TF6S RFUH5TF6S	72 73 74			RFNL5TJ6S	86				
	8	RFV8BGE6S	34	RFV8BM6S	49									RFVS8TG6S RFV8TG6S	81 82	RFVS8TJ6S RFV8TJ6S	87 88				
	10	RFNL10BGE6S RFN10BGE6S	35 37	RFNL10BM6S RFN10BM6S	50 52	RFN10NS6S RFUH10NS6S	61 62					RFN10TF6S RF1005TF6S RFUH10TF6S	75 76 77			RFNL10TJ6S	89				
	12													RFV12TG6S	83	RFV12TJ6S	90				
	15													RFV15TG6S	84	RFNL15TJ6S RFV15TJ6S	91 92				
	20					RFN20NS6S RFUH20NS6S	63 64					RFN20TF6S RFUH20TF6S	78 79			RFNL20TJ6S RFN20TJ6S RFUH20TJ6S	93 94 95				
	30													RFV30TG6S	85						
650	30																	New RFL30TZ6S New RFS30TZ6S	96 97	☆RFL30TS6D ☆RFS30TS6D	19 20
	60																	New RFL60TZ6S New RFS60TZ6S	98 99	☆RFL60TS6D ☆RFS60TS6D	21 22
800	5											RFN5TF8S	80								
	10					RFN10NS8D	9														

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

☆：开发中

快速恢复二极管

肖特基势垒二极管
例: RF601BM2D FH TL
型号 产品性能代码 包装代码

功率快速恢复二极管 1

Quick Reference No.	Product No.			Taping Code	Absolute Maximum Ratings (T_C=25°C)				Electrical Characteristics (T_j=25° C)*2							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code			V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V)		I_R (μA)		trr (ns)					
		General	Automotive						Max	I_F (A)	Max	V_R (V)	Max	I_F (A)	I_R (A)			
1	RF601BGE2D	*	–	TL	200	200	6	60	0.93	3	10	200	25	0.5	1	(TO-252GE) 〈DPAK〉 [SC-63]		–
2	RFN6BGE2D			TL	200	200	6	40	0.98	3	10	200	25	0.5	1			–
3	RF601BM2D	–	FH	TL	200	200	6	60	0.93	3	10	200	25	0.5	1	TO-252 〈DPAK〉 [SC-63]		YES
4	RFN6BM2D		FH	TL	200	200	6	40	0.98	3	10	200	25	0.5	1			YES
5	RF1001NS2D	*	FH	TL	200	200	10	80	0.93	5	10	200	25	0.5	1	(TO-263S) 〈D2PAK〉		YES
6	RF1601NS2D		FH	TL	200	200	16	100	0.93	8	10	200	30	0.5	1			YES
7	RF2001NS2D		FH	TL	200	200	20	100	0.93	10	10	200	30	0.5	1			YES
8	RF2001NS3D		FH	TL	350	300	20	100	1.3	10	10	300	25	0.5	1			YES
9	RFN10NS8D		FH	TL	800	800	10	60	2.1	5	10	800	40	0.5	1			YES
10	RF601T2D	NZ	–	C9	200	200	6	60	0.93	3	10	200	25	0.5	1	(TO-220FN) <3pin>		–
11	RFN6T2D	NZ	–	C9	200	200	6	40	0.98	3	10	200	25	0.5	1			–
12	RF1001T2D	NZ	–	C9	200	200	10	80	0.93	5	10	200	30	0.5	1			–
13	RFN10T2D	NZ	–	C9	200	200	10	80	0.98	5	10	200	25	0.5	1			–
14	RF1601T2D	NZ	–	C9	200	200	16	100	0.93	8	10	200	30	0.5	1			–
15	RFN16T2D	NZ	–	C9	200	200	16	100	0.98	8	10	200	30	0.5	1			–
16	RF2001T2D	NZ	–	C9	200	200	20	100	0.93	10	10	200	30	0.5	1			–
17	RFN20T2D	NZ	–	C9	200	200	20	100	0.98	10	10	200	30	0.5	1			–
18	RF2001T3D	NZ	–	C9	350	300	20	100	1.3	10	10	300	25	0.5	1			–
19	☆RFL30TS6D	G	–	C13	650	650	30	100	1.5	15	5	650	45	0.5	1	TO-247-3L (TO-247GE-3L)		–
20	☆RFS30TS6D	G	–	C13	650	650	30	80	2.3	15	5	650	30	0.5	1			–
21	☆RFL60TS6D	G	–	C13	650	650	60	180	1.5	30	5	650	55	0.5	1			–
22	☆RFS60TS6D	G	–	C13	650	650	60	150	2.3	30	5	650	35	0.5	1			–
23	RF301BGE2S	*	–	TL	200	200	3	40	0.93	3	10	200	25	0.5	1	(TO-252GE) 〈DPAK〉 [SC-63]		–
24	RFN3BGE2S			TL	200	200	3	40	0.98	3	10	200	25	0.5	1			–
25	RF501BGE2S			TL	200	200	5	40	0.92	5	1	200	25	0.5	1			–
26	RFN5BGE2S			TL	200	200	5	40	0.98	5	10	200	25	0.5	1			–
27	RFN5BGE3S			TL	350	350	5	50	1.5	5	10	350	30	0.5	1			–
28	RFN3BGE6S			TL	600	600	3	20	1.55	3	10	600	30	0.5	1			–
29	RF305BGE6S			TL	600	600	3	50	1.7	3	10	600	30	0.5	1			–
30	RFNL5BGE6S			TL	600	600	5	50	1.3	5	10	600	60	0.5	1			–
31	RFN5BGE6S			TL	600	600	5	30	1.55	5	10	600	50	0.5	1			–
32	RF505BGE6S			TL	600	600	5	50	1.7	5	10	600	30	0.5	1			–
33	RFV5BGE6S			TL	600	600	5	60	2.8	5	10	600	20	0.5	1			–
34	RFV8BGE6S			TL	600	600	8	100	2.8	8	10	600	25	0.5	1			–
35	RFNL10BGE6S			TL	600	600	10	100	1.25 1.3	8 10	10	600	65	0.5	1			–
36	RFN10BGE3S	*	–	TL	350	350	10	80	1.5	10	10	350	30	0.5	1			–
37	RFN10BGE6S			TL	600	600	10	100	1.55	10	10	600	50	0.5	1			–
38	RF301BM2S	–	FH	TL	200	200	3	40	0.93	3	10	200	25	0.5	1	TO-252 〈DPAK〉 [SC-63]		YES
39	RFN3BM2S		FH	TL	200	200	3	40	0.98	3	10	200	25	0.5	1			YES
40	RF501BM2S		FH	TL	200	200	5	40	0.92	5	1	200	25	0.5	1			YES
41	RFN5BM2S		FH	TL	200	200	5	40	0.98	5	10	200	25	0.5	1			YES
42	RFN5BM3S		FH	TL	350	350	5	50	1.5	5	10	350	30	0.5	1			YES
43	RFN3BM6S		FH	TL	600	600	3	20	1.55	3	10	600	30	0.5	1			YES
44	RF305BM6S		FH	TL	600	600	3	50	1.7	3	10	600	30	0.5	1			YES
45	RFNL5BM6S		FH	TL	600	600	5	50	1.3	5	10	600	60	0.5	1			YES
46	RFN5BM6S		FH	TL	600	600	5	30	1.55	5	10	600	50	0.5	1			YES
47	RF505BM6S		FH	TL	600	600	5	50	1.7	5	10	600	30	0.5	1			YES
48	RFV5BM6S		FH	TL	600	600	5	60	2.8	5	10	600	20	0.5	1			YES
49	RFV8BM6S		FH	TL	600	600	8	100	2.8	8	10	600	25	0.5	1			YES
50	RFNL10BM6S		FH	TL	600	600	10	100	1.25 1.3	8 10	10	600	65	0.5	1			YES
51	RFN10BM3S	–	FH	TL	350	350	10	80	1.5	10	10	350	30	0.5	1			YES
52	RFN10BM6S		FH	TL	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
53	RFN10NS3S	*	FH	TL	350	350	10	100	1.5	10	10	350	30	0.5	1	(TO-263S) 〈D2PAK〉		YES
54	RFN20NS3S		FH	TL	350	350	20	100	1.35	20	10	350	35	0.5	1			YES
55	RFUH25NS3S		FH	TL	350	350	20	100	1.45	20	10	350	30	0.5	1			YES
56	RFUH20NS3S		FH	TL	350	350	20	100	1.5	20	10	350	25	0.5	1			YES
57	RFN10NS4S		FH	TL	430	430	10	80	1.55	10	10	430	30	0.5	1			YES
58	RFUH10NS4S		FH	TL	430	430	10	80	1.7	10	10	430	25	0.5	1			YES
59	RFN20NS4S		FH	TL	430	430	20	100	1.55	20	10	430	30	0.5	1			YES
60	RFUH20NS4S		FH	TL	430	430	20	100	1.7	20	10	430	25	0.5	1			YES
61	RFN10NS6S		FH	TL	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
62	RFUH10NS6S		FH	TL	600	600	10	60	2.8	10	10	600	25	0.5	1			YES
63	RFN20NS6S		FH	TL	600	600	20	100	1.55	20	10	600	60	0.5	1			YES
64	RFUH20NS6S		FH	TL	600	600	20	100	2.8	20	10	600	35	0.5	1			YES

* 一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)。 *2 每个元件的规格。
注：封装采用JEDEC表示。( )内表示ROHM封装。〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

☆: 开发中

肖特基势垒二极管
例: RFUH25TB3SNZ C9
型号 产品性能代码 包装代码

功率快速恢复二极管 2

Quick Reference No.	Product No.	Grade Code		Taping Code	Absolute Maximum Ratings (T_C=25°C)				Electrical Characteristics (T_j=25° C)							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	General	Automotive		V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1	V_F (V) Max	I_F (A)	I_R (μA) Max	V_R (V)	trr (ns) Max	I_F (A)	I_R (A)			
65	RFUH25TB3S	NZ	—	C9	350	350	20	100	1.45	20	10	350	30	0.5	1	(TO-220FN) <2pin>		—
66	RFUH20TB3S	NZ	—	C9	350	350	20	100	1.5	20	10	350	25	0.5	1			—
67	RFN10TB4S	NZ	—	C9	430	430	10	80	1.7	10	10	430	25	0.5	1			—
68	RFUH10TB4S	NZ	—	C9	430	430	10	80	1.55	10	10	430	30	0.5	1			—
69	RFN20TB4S	NZ	—	C9	430	430	20	100	1.55	20	10	430	30	0.5	1			—
70	RFUH20TB4S	NZ	—	C9	430	430	20	100	1.7	20	10	430	25	0.5	1			—
71	RF1501TF3S	*	FH	C9	350	300	20	100	1.5	20	10	300	30	0.5	1	(TO-220NFM)		YES
72	RFN5TF6S		FH	C9	600	600	5	30	1.55	5	10	600	50	0.5	1			YES
73	RF505TF6S		FH	C9	600	600	5	80	1.7	5	10	600	30	0.5	1			YES
74	RFUH5TF6S		FH	C9	600	600	5	30	2.8	5	10	600	25	0.5	1			YES
75	RFN10TF6S		FH	C9	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
76	RF1005TF6S		FH	C9	600	600	10	100	1.7	10	10	600	40	0.5	1			YES
77	RFUH10TF6S		FH	C9	600	600	10	60	2.8	10	10	600	25	0.5	1			YES
78	RFN20TF6S		FH	C9	600	600	20	100	1.55	20	10	600	60	0.5	1			YES
79	RFUH20TF6S		FH	C9	600	600	20	100	2.8	20	10	600	35	0.5	1			YES
80	RFN5TF8S		FH	C9	800	800	5	60	2.1	5	10	800	40	0.5	1			YES
81	RFVS8TG6S	G	—	C9	600	600	8	60	3	8	10	600	20	0.5	1	(TO-220AC)		—
82	RFV8TG6S	G	—	C9	600	600	8	100	2.8	8	10	600	25	0.5	1			—
83	RFV12TG6S	G	—	C9	600	600	12	120	2.8	12	10	600	25	0.5	1			—
84	RFV15TG6S	G	—	C9	600	600	15	150	2.8	15	10	600	30	0.5	1			—
85	RFV30TG6S	G	—	C9	600	600	30	200	2.8	30	10	600	40	0.5	1			—
86	RFNL5TJ6S	G	FHG	C9	600	600	5	50	1.3	5	10	600	60	0.5	1	(TO-220ACFP)		YES
87	RFVS8TJ6S	G	—	C9	600	600	8	60	3	8	10	600	20	0.5	1			—
88	RFV8TJ6S	G	—	C9	600	600	8	100	2.8	8	10	600	25	0.5	1			—
89	RFNL10TJ6S	G	FHG	C9	600	600	10	120	1.25 1.3	8 10	10	600	65	0.5	1			YES
90	RFV12TJ6S	G	—	C9	600	600	12	120	2.8	12	10	600	25	0.5	1			—
91	RFNL15TJ6S	G	FHG	C9	600	600	15	160	1.3	15	10	600	65	0.5	1			YES
92	RFV15TJ6S	G	—	C9	600	600	15	150	2.8	15	10	600	30	0.5	1			—
93	RFNL20TJ6S	G	FHG	C9	600	600	20	200	1.3	20	10	600	70	0.5	1			YES
94	RFN20TJ6S	G	FHG	C9	600	600	20	150	1.55	20	10	600	60	0.5	1			YES
95	RFUH20TJ6S	G	FHG	C9	600	600	20	120	2.8	20	10	600	35	0.5	1			YES
96	New RFL30TZ6S	G	—	C13	650	650	30	200	1.5	30	5	650	55	0.5	1	TO-247-2L (TO-247GE-2L)		—
97	New RFS30TZ6S	G	—	C13	650	650	30	160	2.3	30	5	650	35	0.5	1			—
98	New RFL60TZ6S	G	—	C13	650	650	60	320	1.5	60	10	650	75	0.5	1			—
99	New RFS60TZ6S	G	—	C13	650	650	60	250	2.3	60	10	650	55	0.5	1			—

* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装。

整流二极管

整流二极管
例: RRE07VTM4S FH TR
型号 产品性能代码 包装代码

●整流二极管一览表

	V_R (V)	I_O (A)	Surface Mount type				Through Hole type	
								
			2514 size SOD-323HE (TUMD2SM)		TO-252 〈DPAK〉 [SC-63]		(TO-220ACFP)	
General Purpose Rectifier Diodes	400	0.2	**RRE02VSM4S RRE02VTM4S**	1 2				
		0.7	**RRE07VSM4S RRE07VTM4S**	3 4				
	600	0.2	**RRE02VSM6S RRE02VTM6S**	5 6				
		0.7	**RRE07VSM6S RRE07VTM6S**	7 8				
Power Rectifier Diodes	400	6			**RR601BM4S**	9		
	1,000	20					**RRD20TJ10S**	10

注：封装采用JEDEC表示。( )内表示ROHM封装。〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

一般整流二极管

Quick Reference No.	Product No. Part No.	Grade Code General	Grade Code Automotive	Taping Code	Absolute Maximum Ratings (T_C=25° C or Tl=25° C) V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	Electrical Characteristics (T_j=25° C) V_F (V) Max	I_F (A)	I_R (μA) Max	V_R (V)	trr (ns) Max	I_F (mA)	I_R (mA)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
1	**RRE02VSM4S**	*	—	TR	400	400	0.2	1	1.1	0.2	1	400	—	—	—	SOD-323HE (TUMD2SM)		—
2	**RRE02VTM4S**	—	FH	TR	400	400	0.2	1	1.1	0.2	1	400	—	—	—			YES
3	**RRE07VSM4S**	*	—	TR	400	400	0.7	2	1.1	0.7	1	400	—	—	—			—
4	**RRE07VTM4S**	—	FH	TR	400	400	0.7	2	1.1	0.7	1	400	—	—	—			YES
5	**RRE02VSM6S**	*	—	TR	600	600	0.2	1	1.1	0.2	1	600	—	—	—			—
6	**RRE02VTM6S**	—	FH	TR	600	600	0.2	1	1.1	0.2	1	600	—	—	—			YES
7	**RRE07VSM6S**	*	—	TR	600	600	0.7	2	1.1	0.7	1	600	—	—	—			—
8	**RRE07VTM6S**	—	FH	TR	600	600	0.7	2	1.1	0.7	1	600	—	—	—			YES

功率整流二极管

Quick Reference No.	Product No. Part No.	Grade Code General	Grade Code Automotive	Taping Code	Absolute Maximum Ratings (T_C=25° C or Tl=25° C) V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	Electrical Characteristics (T_j=25° C) V_F (V) Max	I_F (A)	I_R (μA) Max	V_R (V)	trr (ns) Max	I_F (mA)	I_R (mA)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
9	**RR601BM4S**	—	FH	TL	400	400	6	40	1.1	6	10	400	—	—	—	TO-252 〈DPAK〉 [SC-63]		YES
10	**RRD20TJ10S**	G	—	C9	1,000	1,000	20	200	1.05	20	10	1,000	—	—	—	(TO-220ACFP)		—

* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装。〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

齐纳二极管

齐纳二极管
例: EDZV FH T2R 3.6 B
型号 | 产品性能代码 | 包装代码 | 齐纳电压 | 细区分

齐纳二极管 1

Package	Surface Mount type															
	0603 size DSN0603-2 (SMD0603)				1006 size SOD-923 (VMN2M)				1608 size SOD-523 (EMD2) [SC-79]				2512 size SOD-323FL (UMD2) [SC-90A]			
Equivalent Circuit Diagram																
Series Name	RASMID™ ADZ series				CDZV series				EDZV series				UFZV series			
Automotive Grade Code	—				—				FH				FH			
Power (mW)	100				100				150				500			
Taping Code	T15R				T2R				T2R				TE-17			
Electrical Characteristics (T_a=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	—	—	—	—	2.0B	2.02 to 2.20	5	—	2.0B	2.02 to 2.20	5	—	—	—	—	—
	—	—	—	—	2.2B	2.22 to 2.41	5	—	2.2B	2.22 to 2.41	5	—	—	—	—	—
	—	—	—	—	2.4B	2.43 to 2.63	5	—	2.4B	2.43 to 2.63	5	—	—	—	—	—
	—	—	—	—	2.7B	2.69 to 2.91	5	—	2.7B	2.69 to 2.91	5	—	—	—	—	—
	—	—	—	—	3.0B	3.01 to 3.22	5	—	3.0B	3.01 to 3.22	5	—	—	—	—	—
	—	—	—	—	3.3B	3.32 to 3.53	5	—	3.3B	3.32 to 3.53	5	—	—	—	—	—
	—	—	—	—	3.6B	3.600 to 3.845	5	—	3.6B	3.600 to 3.845	5	YES	3.6B	3.580 to 3.836	20	—
	—	—	—	—	3.9B	3.89 to 4.16	5	—	3.9B	3.89 to 4.16	5	YES	3.9B	3.870 to 4.151	20	—
	—	—	—	—	4.3B	4.17 to 4.43	5	—	4.3B	4.17 to 4.43	5	YES	4.3B	4.151 to 4.423	20	—
	—	—	—	—	4.7B	4.55 to 4.75	5	—	4.7B	4.55 to 4.75	5	YES	4.7B	4.534 to 4.795	20	YES
	5.1B	4.975 to 5.230	5	—	5.1B	4.98 to 5.20	5	—	5.1B	4.98 to 5.20	5	YES	5.1B	4.940 to 5.200	20	YES
	5.6B	5.510 to 5.800	5	—	5.6B	5.49 to 5.73	5	—	5.6B	5.49 to 5.73	5	YES	5.6B	5.450 to 5.730	20	YES
	6.2B	6.020 to 6.335	5	—	6.2B	6.06 to 6.33	5	—	6.2B	6.06 to 6.33	5	YES	6.2B	5.976 to 6.307	20	YES
	6.8B	6.670 to 7.015	5	—	6.8B	6.65 to 6.93	5	—	6.8B	6.65 to 6.93	5	YES	6.8B	6.525 to 6.865	20	YES
	7.5B	7.330 to 7.710	5	—	7.5B	7.28 to 7.60	5	—	7.5B	7.28 to 7.60	5	YES	7.5B	7.104 to 7.509	20	YES
	8.2B	8.000 to 8.400	5	—	8.2B	8.02 to 8.36	5	—	8.2B	8.02 to 8.36	5	YES	8.2B	7.827 to 8.265	20	YES
	☆9.1B	8.750 to 9.190	5	—	9.1B	8.85 to 9.23	5	—	9.1B	8.85 to 9.23	5	YES	9.1B	8.635 to 9.106	20	YES
	☆10B	9.560 to 10.04	5	—	10B	9.77 to 10.21	5	—	10B	9.77 to 10.21	5	YES	10B	9.497 to 10.050	20	YES
	☆11B	10.54 to 11.08	5	—	11B	10.76 to 11.22	5	—	11B	10.76 to 11.22	5	YES	11B	10.550 to 11.160	10	YES
	☆12B	11.63 to 12.21	5	—	12B	11.74 to 12.24	5	—	12B	11.74 to 12.24	5	YES	12B	11.510 to 12.160	10	YES
	☆13B	12.85 to 13.49	5	—	13B	12.91 to 13.49	5	—	13B	12.91 to 13.49	5	YES	13B	12.640 to 13.340	10	YES
	☆15B	14.30 to 15.02	5	—	15B	14.34 to 14.98	5	—	15B	14.34 to 14.98	5	YES	15B	14.000 to 14.790	10	YES
	☆16B	15.96 to 16.76	5	—	16B	15.85 to 16.51	5	—	16B	15.85 to 16.51	5	YES	16B	15.390 to 16.240	10	YES
	☆18B	17.52 to 18.41	2	—	18B	17.56 to 18.35	2	—	18B	17.56 to 18.35	5	YES	18B	17.000 to 17.950	10	YES
	—	—	—	—	20B	19.52 to 20.39	2	—	20B	19.52 to 20.39	5	YES	20B	18.870 to 19.890	10	YES
	—	—	—	—	22B	21.54 to 22.47	2	—	22B	21.54 to 22.47	5	YES	22B	20.770 to 21.920	5	YES
	—	—	—	—	24B	23.72 to 24.78	2	—	24B	23.72 to 24.78	5	YES	24B	22.780 to 24.020	5	YES
	—	—	—	—	27B	26.19 to 27.53	2	—	27B	26.19 to 27.53	2	YES	27B	25.190 to 26.560	5	YES
	—	—	—	—	30B	29.19 to 30.69	2	—	30B	29.19 to 30.69	2	YES	30B	27.980 to 29.500	5	YES
	—	—	—	—	33B	32.15 to 33.79	2	—	33B	32.15 to 33.79	2	YES	33B	30.660 to 32.320	5	YES
	—	—	—	—	36B	35.07 to 36.87	2	—	36B	35.07 to 36.87	2	YES	36B	33.230 to 35.010	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	39B	35.880 to 37.790	5	YES

Package	Surface Mount type															
	2512 size SOD-323FL (UMD2) [SC-90A]				2512 size SOD-323FL (UMD2) [SC-90A]				2514 size SOD-323HE (TUMD2M) [SC-108B]				2514 size SOD-323HE (TUMD2M) [SC-108B]			
Equivalent Circuit Diagram																
Series Name	UDZV series				UDZLV series				TFZV series				YFZV series			
Automotive Grade Code	FH				FH				—				FH			
Power (mW)	200				200				500				500			
Taping Code	TE-17				TE-17				TR				TR			
Electrical Characteristics (T_a=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	2.0B	2.02 to 2.20	5	YES	51	48 to 54	2	YES	2.0B	2.02 to 2.20	20	—	—	—	—	—
	2.2B	2.22 to 2.41	5	YES	56	53 to 60	2	YES	2.2B	2.22 to 2.41	20	—	—	—	—	—
	2.4B	2.43 to 2.63	5	YES	62	58 to 66	2	YES	2.4B	2.43 to 2.63	20	—	—	—	—	—
	2.7B	2.69 to 2.91	5	YES	68	64 to 72	2	YES	2.7B	2.69 to 2.91	20	—	—	—	—	—
	3.0B	3.01 to 3.22	5	YES	75	70 to 79	2	YES	3.0B	3.01 to 3.22	20	—	3.0B	3.01 to 3.22	20	YES
	3.3B	3.32 to 3.53	5	YES	82	77 to 87	2	YES	3.3B	3.32 to 3.53	20	—	3.3B	3.32 to 3.53	20	YES
	3.6B	3.600 to 3.845	5	YES	91	85 to 96	1	YES	3.6B	3.600 to 3.845	20	—	3.6B	3.600 to 3.845	20	YES
	3.9B	3.89 to 4.16	5	YES	100	94 to 106	1	YES	3.9B	3.89 to 4.16	20	—	3.9B	3.89 to 4.16	20	YES
	4.3B	4.17 to 4.43	5	YES	110	104 to 116	1	YES	4.3B	4.17 to 4.43	20	—	4.3B	4.17 to 4.43	20	YES
	4.7B	4.55 to 4.75	5	YES	120	114 to 126	1	YES	4.7B	4.55 to 4.80	20	—	4.7B	4.55 to 4.80	20	YES
	5.1B	4.98 to 5.20	5	YES	130	122 to 138	1	—	5.1B	4.94 to 5.20	20	—	5.1B	4.94 to 5.20	20	YES
	5.6B	5.49 to 5.73	5	YES	150	140 to 160	1	—	5.6B	5.45 to 5.73	20	—	5.6B	5.45 to 5.73	20	YES
	6.2B	6.06 to 6.33	5	YES	—	—	—	—	6.2B	5.96 to 6.27	20	—	6.2B	5.96 to 6.27	20	YES
	6.8B	6.65 to 6.93	5	YES	—	—	—	—	6.8B	6.49 to 6.83	20	—	6.8B	6.49 to 6.83	20	YES
	7.5B	7.28 to 7.60	5	YES	—	—	—	—	7.5B	7.07 to 7.45	20	—	7.5B	7.07 to 7.45	20	YES
	8.2B	8.02 to 8.36	5	YES	—	—	—	—	8.2B	7.78 to 8.19	20	—	8.2B	7.78 to 8.19	20	YES
	9.1B	8.85 to 9.23	5	YES	—	—	—	—	9.1B	8.57 to 9.01	20	—	9.1B	8.57 to 9.01	20	YES
	10B	9.77 to 10.21	5	YES	—	—	—	—	10B	9.41 to 9.90	20	—	10B	9.41 to 9.90	20	YES
	11B	10.76 to 11.22	5	YES	—	—	—	—	11B	10.50 to 11.05	10	—	11B	10.50 to 11.05	10	YES
	12B	11.74 to 12.24	5	YES	—	—	—	—	12B	11.44 to 12.03	10	—	12B	11.44 to 12.03	10	YES
	13B	12.91 to 13.49	5	YES	—	—	—	—	13B	12.55 to 13.21	10	—	13B	12.55 to 13.21	10	YES
	15B	14.34 to 14.98	5	YES	—	—	—	—	15B	13.89 to 14.62	10	—	15B	13.89 to 14.62	10	YES
	16B	15.85 to 16.51	5	YES	—	—	—	—	16B	15.25 to 16.04	10	—	16B	15.25 to 16.04	10	YES
	18B	17.56 to 18.35	5	YES	—	—	—	—	18B	16.82 to 17.70	10	—	18B	16.82 to 17.70	10	YES
	20B	19.52 to 20.39	5	YES	—	—	—	—	20B	18.63 to 19.59	10	—	20B	18.63 to 19.59	10	YES
	22B	21.54 to 22.47	5	YES	—	—	—	—	22B	20.64 to 21.71	5	—	22B	20.64 to 21.71	5	YES
	24B	23.72 to 24.78	5	YES	—	—	—	—	24B	22.61 to 23.77	5	—	24B	22.61 to 23.77	5	YES
	27B	26.19 to 27.53	5	YES	—	—	—	—	27B	24.97 to 26.26	5	—	27B	24.97 to 26.26	5	YES
	30B	29.19 to 30.69	5	YES	—	—	—	—	30B	27.70 to 29.13	5	—	30B	27.70 to 29.13	5	YES
	33B	32.15 to 33.79	5	YES	—	—	—	—	33B	30.32 to 31.88	5	—	—	—	—	—
	36B	35.07 to 36.87	5	YES	—	—	—	—	36B	32.79 to 34.49	5	—	—	—	—	—
	39B	38.02 to 39.98	2	YES	—	—	—	—	39B	35.36 to 37.19	5	—	—	—	—	—
	43	40.00 to 45.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—
	47	44.00 to 49.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—

◎RASMID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。
RASMID™是ROHM Co., Ltd.的商标或注册商标。
注1：表中是量产中的细区分。
注2：封装采用JEDEC表示。( )内表示ROHM封装。[ ]内表示JEITA编号。

☆：开发中

齐纳二极管

ESD保护用齐纳二极管
例: YDZV FH TR 13
型号 产品性能代码 包装代码 齐纳电压

齐纳二极管 2

Package	Surface Mount type															
	2514 size SOD-323HE (TUMD2M) [SC-108B]				2514 size SOD-323HE (TUMD2SM) [SC-108B]				2924 size SOT-23 (SSD3)				2924 size SOT-23 (SSD3)			
Equivalent Circuit Diagram																
Series Name	TDZV series				YDZV series				BZX84BxxLY series				BZX84CxxLY series			
Automotive Grade Code	–				FH				FH				FH			
Power (mW)	500				500				250				250			
Taping Code	TR				TR				T116				T116			
Electrical Characteristics (T_j=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	–	–	–	–	–	–	–	–	–	–	–	–	2V4	2.20 to 2.60	5	YES
	–	–	–	–	–	–	–	–	–	–	–	–	2V7	2.50 to 2.90	5	YES
	–	–	–	–	–	–	–	–	–	–	–	–	3V0	2.80 to 3.20	5	YES
	–	–	–	–	–	–	–	–	–	–	–	–	3V3	3.10 to 3.50	5	YES
	–	–	–	–	–	–	–	–	–	–	–	–	3V6	3.40 to 3.80	5	YES
	–	–	–	–	–	–	–	–	–	–	–	–	3V9	3.70 to 4.10	5	YES
	–	–	–	–	–	–	–	–	–	–	–	–	4V3	4.00 to 4.60	5	YES
	–	–	–	–	–	–	–	–	–	–	–	–	4V7	4.40 to 5.00	5	YES
	5.1	4.60 to 5.60	10	–	–	–	–	–	5V1	5.00 to 5.20	5	YES	5V1	4.80 to 5.40	5	YES
	5.6	5.10 to 6.10	10	–	–	–	–	–	5V6	5.49 to 5.71	5	YES	5V6	5.20 to 6.00	5	YES
	6.2	5.60 to 6.80	10	–	–	–	–	–	6V2	6.08 to 6.32	5	YES	6V2	5.80 to 6.60	5	YES
	6.8	6.20 to 7.40	10	–	–	–	–	–	6V8	6.66 to 6.94	5	YES	6V8	6.40 to 7.20	5	YES
	7.5	6.80 to 8.30	10	–	–	–	–	–	7V5	7.35 to 7.65	5	YES	7V5	7.00 to 7.90	5	YES
	8.2	7.40 to 9.00	10	–	–	–	–	–	8V2	8.04 to 8.36	5	YES	8V2	7.70 to 8.70	5	YES
	9.1	8.20 to 10.00	10	–	–	–	–	–	9V1	8.92 to 9.28	5	YES	9V1	8.50 to 9.60	5	YES
	10	9.00 to 11.00	10	–	–	–	–	–	10V	9.80 to 10.20	5	YES	10V	9.40 to 10.60	5	YES
	11	9.90 to 12.10	10	–	–	–	–	–	11V	10.80 to 11.20	5	YES	11V	10.40 to 11.60	5	YES
	12	10.80 to 13.20	10	–	–	–	–	–	12V	11.80 to 12.20	5	YES	12V	11.40 to 12.70	5	YES
	13	11.70 to 14.30	10	–	13	11.70 to 14.30	10	YES	13V	12.70 to 13.30	5	YES	13V	12.40 to 14.10	5	YES
	15	13.50 to 16.50	10	–	15	13.50 to 16.50	10	YES	15V	14.70 to 15.30	5	YES	15V	13.80 to 15.60	5	YES
	16	14.40 to 17.60	10	–	16	14.40 to 17.60	10	YES	16V	15.70 to 16.30	5	YES	16V	15.30 to 17.10	5	YES
	18	16.20 to 19.80	10	–	18	16.20 to 19.80	10	YES	18V	17.60 to 18.40	5	YES	18V	16.80 to 19.10	5	YES
	20	18.00 to 22.00	10	–	20	18.00 to 22.00	10	YES	20V	19.60 to 20.40	5	YES	20V	18.80 to 21.20	5	YES
	22	19.80 to 24.20	10	–	22	19.80 to 24.20	10	YES	22V	21.60 to 22.40	5	YES	22V	20.80 to 23.30	5	YES
	24	21.60 to 26.40	10	–	24	21.60 to 26.40	10	YES	24V	23.50 to 24.50	5	YES	24V	22.80 to 25.60	5	YES
	27	24.30 to 29.70	10	–	27	24.30 to 29.70	10	YES	27V	26.50 to 27.50	2	YES	27V	25.10 to 28.90	2	YES
	30	27.00 to 33.00	10	–	–	–	–	–	30V	29.40 to 30.60	2	YES	30V	28.00 to 32.00	2	YES
	–	–	–	–	–	–	–	–	33V	32.30 to 33.70	2	YES	33V	31.00 to 35.00	2	YES
	–	–	–	–	–	–	–	–	36V	35.30 to 36.70	2	YES	36V	34.00 to 38.00	2	YES

Package	Surface Mount type															
	3516 size (PMDU) 〈SOD-123FL〉 [SC-109B]				3516 size (PMDU) 〈SOD-123FL〉 [SC-109B]				4725 size (PMDTM) 〈SOD-128〉				5026 size (PMDS) DO-214AC 〈SMA〉			
Equivalent Circuit Diagram																
Series Name	KDZV series				KDZLV series				PDZV series				PTZ series*			
Automotive Grade Code	TF				TF				TF				TF			
Power (mW)	1,000				1,000				1,000				1,000			
Taping Code	TR				TR				TR				TE25			
Electrical Characteristics (T_j=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	2.0B	2.00 to 2.24	40	YES	51	48 to 54	2	YES	2.0B	2.00 to 2.24	40	YES	2.0B	2.00 to 2.24	40	YES
	2.2B	2.20 to 2.45	40	YES	56	53 to 60	2	YES	2.2B	2.20 to 2.45	40	YES	2.2B	2.20 to 2.45	40	YES
	2.4B	2.40 to 2.70	40	YES	62	58 to 66	2	YES	2.4B	2.40 to 2.70	40	YES	2.4B	2.40 to 2.70	40	YES
	2.7B	2.70 to 3.10	40	YES	68	64 to 72	2	YES	2.7B	2.70 to 3.10	40	YES	2.7B	2.70 to 3.10	40	YES
	3.0B	3.00 to 3.40	40	YES	75	70 to 79	2	YES	3.0B	3.00 to 3.40	40	YES	3.0B	3.00 to 3.40	40	YES
	3.3B	3.30 to 3.70	40	YES	82	77 to 87	2	YES	3.3B	3.30 to 3.70	40	YES	3.3B	3.30 to 3.70	40	YES
	3.6B	3.60 to 4.00	40	YES	91	85 to 96	2	YES	3.6B	3.60 to 4.00	40	YES	3.6B	3.60 to 4.00	40	YES
	3.9B	3.90 to 4.40	40	YES	100	94 to 106	2	YES	3.9B	3.90 to 4.40	40	YES	3.9B	3.90 to 4.40	40	YES
	4.3B	4.30 to 4.80	40	YES	110	104 to 116	2	YES	4.3B	4.30 to 4.80	40	YES	4.3B	4.30 to 4.80	40	YES
	4.7B	4.70 to 5.20	40	YES	120	114 to 126	2	YES	4.7B	4.70 to 5.20	40	YES	4.7B	4.70 to 5.20	40	YES
	5.1B	5.10 to 5.70	40	YES	130	122 to 138	2	YES	5.1B	5.10 to 5.70	40	YES	5.1B	5.10 to 5.70	40	YES
	5.6B	5.60 to 6.30	40	YES	150	140 to 160	2	YES	5.6B	5.60 to 6.30	40	YES	5.6B	5.60 to 6.30	40	YES
	6.2B	6.20 to 7.00	40	YES	–	–	–	–	6.2B	6.20 to 7.00	40	YES	6.2B	6.20 to 7.00	40	YES
	6.8B	6.80 to 7.70	40	YES	–	–	–	–	6.8B	6.80 to 7.70	40	YES	6.8B	6.80 to 7.70	40	YES
	7.5B	7.50 to 8.40	40	YES	–	–	–	–	7.5B	7.50 to 8.40	40	YES	7.5B	7.50 to 8.40	40	YES
	8.2B	8.20 to 9.30	40	YES	–	–	–	–	8.2B	8.20 to 9.30	40	YES	8.2B	8.20 to 9.30	40	YES
	9.1B	9.10 to 10.20	40	YES	–	–	–	–	9.1B	9.10 to 10.20	40	YES	9.1B	9.10 to 10.20	40	YES
	10B	10.00 to 11.20	40	YES	–	–	–	–	10B	10.00 to 11.20	40	YES	10B	10.00 to 11.20	40	YES
	11B	11.00 to 12.30	20	YES	–	–	–	–	11B	11.00 to 12.30	20	YES	11B	11.00 to 12.30	20	YES
	12B	12.00 to 13.50	20	YES	–	–	–	–	12B	12.00 to 13.50	20	YES	12B	12.00 to 13.50	20	YES
	13B	13.30 to 15.00	20	YES	–	–	–	–	13B	13.30 to 15.00	20	YES	13B	13.30 to 15.00	20	YES
	15B	14.70 to 16.50	20	YES	–	–	–	–	15B	14.70 to 16.50	20	YES	15B	14.70 to 16.50	20	YES
	16B	16.20 to 18.30	20	YES	–	–	–	–	16B	16.20 to 18.30	20	YES	16B	16.20 to 18.30	20	YES
	18B	18.00 to 20.30	20	YES	–	–	–	–	18B	18.00 to 20.30	20	YES	18B	18.00 to 20.30	20	YES
	20B	20.00 to 22.40	20	YES	–	–	–	–	20B	20.00 to 22.40	20	YES	20B	20.00 to 22.40	20	YES
	22B	22.00 to 24.50	10	YES	–	–	–	–	22B	22.00 to 24.50	10	YES	22B	22.00 to 24.50	10	YES
	24B	24.00 to 27.60	10	YES	–	–	–	–	24B	24.00 to 27.60	10	YES	24B	24.00 to 27.60	10	YES
	27B	27.00 to 30.80	10	YES	–	–	–	–	27B	27.00 to 30.80	10	YES	27B	27.00 to 30.80	10	YES
	30B	30.00 to 34.00	10	YES	–	–	–	–	30B	30.00 to 34.00	10	YES	30B	30.00 to 34.00	10	YES
	33B	33.00 to 37.00	10	YES	–	–	–	–	33B	33.00 to 37.00	10	YES	33B	33.00 to 37.00	10	YES
	36B	36.00 to 40.00	10	YES	–	–	–	–	36B	36.00 to 40.00	10	YES	36B	36.00 to 40.00	10	YES
	39A	37.00 to 44.00	10	YES	–	–	–	–	–	–	–	–	–	–	–	–
	43A	40.00 to 46.00	10	YES	–	–	–	–	–	–	–	–	–	–	–	–
	47A	44.00 to 50.00	2	YES	–	–	–	–	–	–	–	–	–	–	–	–

* 仅限车载级
注1：表中是量产中的细区分。
注2：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

齐纳二极管

保护元件
例: UMZ6.8NFM FH T106
型号 产品性能代码 包装代码

保护元件(2个电路复合品)

Product No.				Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P_D (mW)	V_Z (V)	I_Z (mA)			
	General	Automotive							
UMZ6.8NFM	*	FH	T106	200	6.65 to 6.93	5	SOT-323 (UMD3) [SC-70]		YES
UMZ12NFM		FH	T106	200	11.74 to 12.24	5			YES
UMZ16NFM		FH	T106	200	12.91 to 13.49	5			YES
UMZ18NFM		FH	T106	200	15.85 to 16.51	5			YES
UMZ27NFM		FH	T106	200	23.72 to 24.78	5			YES
UMZ30NFM		FH	T106	200	26.19 to 27.53	5			YES
UMZ36NFM		FH	T106	200	32.15 to 33.79	5			YES

* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

低容量保护元件

Product No.				Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)					Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P_D (mW)	V_Z (V)	I_Z (mA)	Ct (pF) Typ	f (MHz)	V_R (V)			
	General	Automotive										
CDZCV5.1B	*	—	T2R	100	4.98 to 5.20	5	5.5	1	0	SOD-923 (VMN2M)		—
CDZCV6.8B		—	T2R	100	6.65 to 6.93	5	3	1	0			—
EDZCV6.8B		—	T2R	150	6.65 to 6.93	5	3	1	0	SOD-523 (EMD2) [SC-79]		—
RSAC6.8CM		—	T2R	100	6.70 to 7.33	5	0.3	1	0	SOD-923 (VMN2M)		—
RSAC16CM		—	T2R	100	16.49 to 17.51	5	0.3	1	0			—
UMZC6.8NFM		FH	T106	200	6.47 to 7.14	5	3	1	0	SOT-323 (UMD3) [SC-70]		YES
UMZU6.2NFM		FH	T106	200	5.90 to 6.50	5	8	1	0			YES

* 一般产品的产品性能代码为空白。
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超低容量双向齐纳二极管

Product No.				Absolute Maximum Ratings (T_a=25° C)	Electrical Characteristics (T_a=25°C)					Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P_D (mW)	V_Z (V)	I_Z (mA)	Ct (pF) Typ	f (MHz)	V_R (V)			
	General	Automotive										
RSBC6.8CM	*	—	T2N	100	6.62 to 7.24	5	1	1	0	SOD-923 (VMN2M)		—

* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装。

TVS

●TVS一览表

V_{RWM} (V)	Surface Mount type																							
	0603 size		1006 size		2924 size		2513 size		3516 size		4725 size		6546 size											
	DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)		SOT-23 (SSD3)		(PMDE)		(PMDU) 〈SOD-123FL〉 [SC-109B]		(PMDTM) 〈SOD-128〉		TO-277A (TO-277GE)		TO-252 〈DPAK〉 [SC-63]		(TO-263S) 〈D2PAK〉							
3.0					MMBZ5V6ALY MMBZ6V2ALY	6 7																		
4.5					MMBZ6V8ALY	8																		
5.0							VS5V0UA1VWM	22	SMF5V0	54	VS5V0UA1LAM	77												
6.0					MMBZ9V1ALY	9	New VS6V0UA1VWM	23	SMF6V0	55	VS6V0UA1LAM	78												
6.3			VS6V3UC1QS	5																				
6.5					MMBZ10VALY	10	New VS6V5UA1VWM	24	SMF6V5	56														
7.0	VS7V0UD1HS	1							SMF7V0	57	VS7V0UA1LAM	79												
7.5							New VS7V5UA1VWM	25	SMF7V5	58														
8.0									SMF8V0	59	VS8V0UA1LAM	80												
8.5					MMBZ12VALY	11																		
9.0	VS9V0UD1HS	2					New VS9V0UA1VWM	26	SMF9V0	60	VS9V0UA1LAM	81												
10.0									SMF10V	61	VS10VUA1LAM	82												
11.0							New VS11VUA1VWM	27	SMF11V	62	VS11VUA1LAM	83												
12.0	VS12V0UD1HS	3			MMBZ15VALY	12	New VS12VUA1VWM	28	SMF12V	63	VS12VUA1LAM	84												
13.0					MMBZ16VALY	13	New VS13VUA1VWM	29	SMF13V	64	VS13VUA1LAM	85												
14.0									SMF14V	65	VS14VUA1LAM	86												
14.5					MMBZ18VALY	14																		
15.0	VS15V0UD1HS	4					New VS15VUA1VWM	30	SMF15V	66	VS15VUA1LAM	87												
16.0							New VS16VUA1VWM	31	SMF16V	67	VS16VUA1LAM	88												
17.0					MMBZ20VALY	15	New VS17VUA1VWM	32	SMF17V	68	VS17VUA1LAM	89												
18.0							New VS18VUA1VWM	33	SMF18V	69	VS18VUA1LAM	90												
20.0					MMBZ24VALY	16	New VS20VUA1VWM	34	SMF20V	70	VS20VUA1LAM	91												
22.0					MMBZ27VALY MMBZ27VCLY	17 21	New VS22VUA1VWM	35	SMF22V	71	VS22VUA1LAM	92	New RSDT27RSM	97	RSDT27BM	99	RSDT27NS	101						
24.0					MMBZ30VALY	18	New VS24VUA1VWM	36	SMF24V	72	VS24VUA1LAM	93	New RSDT30RSM	98	RSDT30BM	100	RSDT30NS	102						
26.0					MMBZ33VALY	19	New VS26VUA1VWM	37	SMF26V	73	VS26VUA1LAM	94												
28.0					MMBZ36VALY	20			SMF28V	74	VS28VUA1LAM	95												
30.0							New VS30VUA1VWM	38	SMF30V	75	VS30VUA1LAM	96												
33.0							New VS33VUA1VWM	39	SMF33V	76														
36.0							New VS36VUA1VWM	40																
40.0							New VS40VUA1VWM	41																
43.0							New VS43VLNVWM	42																
48.0							New VS48VLNVWM	43																
54.0							New VS54VLNVWM	44																
58.0							New VS58VLNVWM	45																
64.0							New VS64VLNVWM	46																
70.0							New VS70VLNVWM	47																
78.0							New VS78VLNVWM	48																
85.0							New VS85VLNVWM	49																
90.0							New VS90VLNVWM	50																
100							New VS100VLNVWM	51																
110							New VS110VLNVWM	52																
130							New VS130VLNVWM	53																

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

●双向TVS一览表

V_{RWM} (V)	Surface Mount type																							
	0402 size				0603 size						1006 size				2012 size				2924 size					
	DSN0402-2 (SMD0402)				DSN0603-2 (SMD0603)				DSN0603-2 (SMD0603B)				DSN1006-2 (SMD1006)				DSN2012-2 (SMD2012)				SOT-23 (SSD3)			
3.3	RASMID™ VS3V3BA1FS RASMID™ VS3V3BB1FS RASMID™ VS3V3BT1FS	103 104 105			RASMID™ VS3V3BA1ES RASMID™ VS3V3BB1ES	109 110			RASMID™ VS3V3BC1HS RASMID™ VS3V3BL1HS RASMID™ VS3V3BN1HS	108 121 122																
4.5											RASMID™ VS4V5BU1QS	115												
4.8															RASMID™ VS4V8BU1AR	116								
5.0	RASMID™ VS5V0BA1FS RASMID™ VS5V0BB1FS	106 107			RASMID™ VS5V0BA1ES RASMID™ VS5V0BB1ES RASMID™ VS5V0BC1ES	111 112 113			RASMID™ VS5V0BL1HS RASMID™ VS5V0BN1HS	123 124	RASMID™ VS5V0BL1QS	125												
12.0									RASMID™ VS12VBA1HS	114									ESD16VHY	117				
16.0																			ESD18VHY	118				
24.0																			ESD27VHY RESD1CANY	119 120				

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TVS

TVS 例: VS5V0UA1VWM TF TR
型号 产品性能代码 包装代码

TVS

Quick Reference No.	Product No.			Taping Code	V_{RWM} (V)	Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)		Peak Pulse Power (W) (tp=10×1,000μs)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code				P_D (mW)	V_Z (V) or V_{BR} (V)	I_Z (mA)				
		General	Automotive									
1	VS7V0UD1HS		—	T15R	7.0	100	7.20 to 9.00	1	126 (8/20μs)	DSN0603-2 (SMD0603B)		—
2	VS9V0UD1HS		—	T15R	9.0	100	9.60 to 11.80	1	128 (8/20μs)			—
3	VS12V0UD1HS		—	T15R	12.0	100	12.20 to 13.80	1	129 (8/20μs)			—
4	VS15V0UD1HS		—	T15R	15.0	100	15.30 to 16.90	1	135 (8/20μs)			—
5	VS6V3UC1QS		—	T18R	6.3	200	6.70 to 7.70	1	660 (8/20μs)	DSN1006-2 (SMD1006)		—
6	MMBZ5V6ALY		FH	T116	3.0	225	5.32 to 5.88	20	24	SOT-23 (SSD3)		YES
7	MMBZ6V2ALY		FH	T116	3.0	225	5.89 to 6.51	1	24			YES
8	MMBZ6V8ALY		FH	T116	4.5	225	6.46 to 7.14	1	24			YES
9	MMBZ9V1ALY		FH	T116	6.0	225	8.65 to 9.56	1	24			YES
10	MMBZ10VALY		FH	T116	6.5	225	9.50 to 10.50	1	24			YES
11	MMBZ12VALY		FH	T116	8.5	225	11.40 to 12.60	1	40			YES
12	MMBZ15VALY		FH	T116	12.0	225	14.25 to 15.75	1	40			YES
13	MMBZ16VALY		FH	T116	13.0	225	15.20 to 16.80	1	40			YES
14	MMBZ18VALY		FH	T116	14.5	225	17.10 to 18.90	1	40			YES
15	MMBZ20VALY		FH	T116	17.0	225	19.00 to 21.00	1	40			YES
16	MMBZ24VALY		FH	T116	20.0	225	22.80 to 25.20	1	40			YES
17	MMBZ27VALY		FH	T116	22.0	225	25.65 to 28.35	1	40			YES
18	MMBZ30VALY		FH	T116	24.0	225	28.50 to 31.50	1	40			YES
19	MMBZ33VALY		FH	T116	26.0	225	31.35 to 34.65	1	40			YES
20	MMBZ36VALY		FH	T116	28.0	225	34.20 to 37.80	1	40			YES
21	MMBZ27VCLY		FH	T116	22.0	225	25.65 to 28.35	1	40			YES
22	VS5V0UA1VWM		TF	TR	5.0	1,000	6.40 to 7.20	40	200	(PMDE)		YES
23	New VS6V0UA1VWM		TF	TR	6.0	1,000	6.80 to 7.70	40	200			YES
24	New VS6V5UA1VWM		TF	TR	6.5	1,000	7.50 to 8.40	40	200			YES
25	New VS7V5UA1VWM		TF	TR	7.5	1,000	8.20 to 9.30	40	200			YES
26	New VS9V0UA1VWM	*	TF	TR	9.0	1,000	10.0 to 11.2	40	200			YES
27	New VS11VUA1VWM		TF	TR	11.0	1,000	12.0 to 12.2	20	200			YES
28	New VS12VUA1VWM		TF	TR	12.0	1,000	13.3 to 15.0	20	200			YES
29	New VS13VUA1VWM		TF	TR	13.0	1,000	14.7 to 16.5	20	200			YES
30	New VS15VUA1VWM		TF	TR	15.0	1,000	16.2 to 18.3	20	200			YES
31	New VS16VUA1VWM		TF	TR	16.0	1,000	18.0 to 20.3	20	200			YES
32	New VS17VUA1VWM		TF	TR	17.0	1,000	18.8 to 21.2	20	200			YES
33	New VS18VUA1VWM		TF	TR	18.0	1,000	20.0 to 22.4	20	200			YES
34	New VS20VUA1VWM		TF	TR	20.0	1,000	22.0 to 24.5	10	200			YES
35	New VS22VUA1VWM		TF	TR	22.0	1,000	24.0 to 27.6	10	200			YES
36	New VS24VUA1VWM		TF	TR	24.0	1,000	27.0 to 30.8	10	200			YES
37	New VS26VUA1VWM		TF	TR	26.0	1,000	28.6 to 32.1	10	200			YES
38	New VS30VUA1VWM		TF	TR	30.0	1,000	33.0 to 37.0	10	200			YES
39	New VS33VUA1VWM		TF	TR	33.0	1,000	36.0 to 40.0	10	200			YES
40	New VS36VUA1VWM		TF	TR	36.0	1,000	40.0 to 46.0	10	200			YES
41	New VS40VUA1VWM		TF	TR	40.0	1,000	44.0 to 50.0	10	200			YES
42	New VS43VLNVWM		TF	TR	43.0	1,000	48.0 to 54.0	2	200			YES
43	New VS48VLNVWM		TF	TR	48.0	1,000	53.0 to 60.0	2	200			YES
44	New VS54VLNVWM		TF	TR	54.0	1,000	58.0 to 66.0	2	200			YES
45	New VS58VLNVWM		TF	TR	58.0	1,000	64.0 to 72.0	2	200			YES
46	New VS64VLNVWM		TF	TR	64.0	1,000	70.0 to 79.0	2	200			YES
47	New VS70VLNVWM		TF	TR	70.0	1,000	77.0 to 87.0	2	200			YES
48	New VS78VLNVWM		TF	TR	78.0	1,000	85.0 to 96.0	2	200			YES
49	New VS85VLNVWM		TF	TR	85.0	1,000	94.0 to 106	2	200			YES
50	New VS90VLNVWM		TF	TR	90.0	1,000	104 to 116	2	200			YES
51	New VS100VLNVWM		TF	TR	100	1,000	114 to 126	2	200			YES
52	New VS110VLNVWM		TF	TR	110	1,000	122 to 138	2	200			YES
53	New VS130VLNVWM		TF	TR	130	1,000	140 to 160	2	200			YES

* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装。

TVS

TVS 例: VS5V0UA1VWM TF TR
型号 产品性能代码 包装代码

TVS

Quick Reference No.	Product No.			Taping Code	V_{RWM} (V)	Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)		Peak Pulse Power (W) (tp=10×1,000μs)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code				P_D (mW)	V_Z (V) or V_{BR} (V)	I_Z (mA)				
		General	Automotive									
54	SMF5V0		TF	TR	5.0	1,000	6.40 or more	40	200	(PMDU) 〈SOD-123FL〉 [SC-109B]		YES
55	SMF6V0		TF	TR	6.0	1,000	6.67 or more	40	200			YES
56	SMF6V5		TF	TR	6.5	1,000	7.22 or more	40	200			YES
57	SMF7V0		TF	TR	7.0	1,000	7.78 or more	40	200			YES
58	SMF7V5		TF	TR	7.5	1,000	8.33 or more	40	200			YES
59	SMF8V0		TF	TR	8.0	1,000	8.89 or more	40	200			YES
60	SMF9V0		TF	TR	9.0	1,000	10.0 or more	40	200			YES
61	SMF10V		TF	TR	10.0	1,000	11.1 or more	20	200			YES
62	SMF11V		TF	TR	11.0	1,000	12.2 or more	20	200			YES
63	SMF12V		TF	TR	12.0	1,000	13.3 or more	20	200			YES
64	SMF13V		TF	TR	13.0	1,000	14.4 or more	20	200			YES
65	SMF14V		TF	TR	14.0	1,000	15.6 or more	20	200			YES
66	SMF15V		TF	TR	15.0	1,000	16.7 or more	20	200			YES
67	SMF16V		TF	TR	16.0	1,000	17.2 or more	20	200			YES
68	SMF17V		TF	TR	17.0	1,000	18.9 or more	20	200			YES
69	SMF18V		TF	TR	18.0	1,000	20.0 or more	20	200			YES
70	SMF20V		TF	TR	20.0	1,000	22.2 or more	10	200			YES
71	SMF22V		TF	TR	22.0	1,000	24.4 or more	10	200			YES
72	SMF24V		TF	TR	24.0	1,000	26.7 or more	10	200			YES
73	SMF26V		TF	TR	26.0	1,000	28.9 or more	10	200			YES
74	SMF28V		TF	TR	28.0	1,000	31.1 or more	10	200			YES
75	SMF30V	*	TF	TR	30.0	1,000	33.3 or more	10	200			YES
76	SMF33V		TF	TR	33.0	1,000	36.7 or more	10	200			YES
77	VS5V0UA1LAM		TF	TR	5.0	—	6.45 to 7.14	10	600	(PMDTM) 〈SOD-128〉		YES
78	VS6V0UA1LAM		TF	TR	6.0	—	6.67 to 7.37	10	600			YES
79	VS7V0UA1LAM		TF	TR	7.0	—	7.78 to 8.60	10	600			YES
80	VS8V0UA1LAM		TF	TR	8.0	—	8.89 to 9.83	1	600			YES
81	VS9V0UA1LAM		TF	TR	9.0	—	10.0 to 11.1	1	600			YES
82	VS10VUA1LAM		TF	TR	10.0	—	11.1 to 12.3	1	600			YES
83	VS11VUA1LAM		TF	TR	11.0	—	12.2 to 13.5	1	600			YES
84	VS12VUA1LAM		TF	TR	12.0	—	13.3 to 14.7	1	600			YES
85	VS13VUA1LAM		TF	TR	13.0	—	14.4 to 15.9	1	600			YES
86	VS14VUA1LAM		TF	TR	14.0	—	15.6 to 17.2	1	600			YES
87	VS15VUA1LAM		TF	TR	15.0	—	16.7 to 18.5	1	600			YES
88	VS16VUA1LAM		TF	TR	16.0	—	17.8 to 19.7	1	600			YES
89	VS17VUA1LAM		TF	TR	17.0	—	18.9 to 20.9	1	600			YES
90	VS18VUA1LAM		TF	TR	18.0	—	20.0 to 22.1	1	600			YES
91	VS20VUA1LAM		TF	TR	20.0	—	22.2 to 24.5	1	600			YES
92	VS22VUA1LAM		TF	TR	22.0	—	24.4 to 26.9	1	600			YES
93	VS24VUA1LAM		TF	TR	24.0	—	26.7 to 29.5	1	600			YES
94	VS26VUA1LAM		TF	TR	26.0	—	28.9 to 31.9	1	600			YES
95	VS28VUA1LAM		TF	TR	28.0	—	31.1 to 34.4	1	600			YES
96	VS30VUA1LAM		TF	TR	30.0	—	33.3 to 36.8	1	600			YES
97	New RSDT27RSM	*	TF	TL1	22.0	1,500	24.0 to 30.0	10	1,500	TO-277A (TO-277GE)		YES
98	New RSDT30RSM		TF	TL1	24.0	1,500	27.0 to 33.0	10	1,500			YES
99	RSDT27BM	—	FH	TL	22.0	2,500	24.0 to 30.0	10	2,500	TO-252 〈DPAK〉 [SC-63]		YES
100	RSDT30BM		FH	TL	24.0	2,500	27.0 to 33.0	10	2,500			YES
101	RSDT27NS	*	FH	TL	22.0	5,000	24.0 to 30.0	10	3,600	(TO-263S) 〈D2PAK〉		YES
102	RSDT30NS	—	FH	TL	24.0	5,000	27.0 to 33.0	10	3,600			YES

* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

TVS
例: VS3V3BC1HS T15R
型号 包装代码

双向TVS

Quick Reference No.	Product No.	Grade Code		Taping Code	Absolute Maximum Ratings (T_a=25° C)	Electrical 特征表 (T_a=25° C)		Peak Pulse Power (W) (tp=8/20μs)	Ct (pF) (Typ)			Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	General	Automotive		P_D (mW)	V_{BR} (V)	I_Z (mA)			f (MHz)	V_R (V)			
103	RASMID™ VS3V3BA1FS	*	—	T27N	100	4.0 or more	1	26.5	6	1	0	DSN0402-2 (SMD0402)		—
104	RASMID™ VS3V3BB1FS		—	T27N	100	4.0 or more	1	38	10	1	0			—
105	RASMID™ VS3V3BT1FS		—	T27N	100	4.0 or more	1	21	4.7	1	0			—
106	RASMID™ VS5V0BA1FS		—	T27N	100	5.3 or more	1	26.5	6	1	0			—
107	RASMID™ VS5V0BB1FS		—	T27N	100	5.3 or more	1	45	10	1	0			—
108	RASMID™ VS3V3BC1HS		—	T15R	100	4.0 or more	1	70	18	1	0	DSN0603-2 (SMD0603B)		—
109	RASMID™ VS3V3BA1ES		—	T15R	100	4.0 or more	1	28	6	1	0	DSN0603-2 (SMD0603)		—
110	RASMID™ VS3V3BB1ES		—	T15R	100	4.0 or more	1	45	10	1	0			—
111	RASMID™ VS5V0BA1ES		—	T15R	100	6.0 to 8.0	1	10	5	1	0			—
112	RASMID™ VS5V0BB1ES		—	T15R	100	6.0 to 9.0	1	25	7	1	0			—
113	RASMID™ VS5V0BC1ES		—	T15R	100	6.0 to 9.0	1	60	15	1	0			—
114	RASMID™ VS12VBA1HS		—	T15R	100	12.5 to 15.0	1	70	7	1	0	DSN0603-2 (SMD0603B)		—
115	RASMID™ VS4V5BU1QS		—	T18R	200	5.3 to 6.5	1	600	100	1	0	DSN01006-2 (SMD1006)		—
116	RASMID™ VS4V8BU1AR		—	T7R	—	4.85 to 6.00	1	1,100	480 (Max)	1	0	DSN2012-2 (SMD2012)		—
117	ESD16VHY		FH	T116	225	15.96 to 17.64	1	100	13	1	0	SOT-23 (SSD3)		YES
118	ESD18VHY		FH	T116	225	17.86 to 19.74	1	100	12	1	0			YES
119	ESD27VHY		FH	T116	225	26.41 to 29.19	1	100	8	1	0			YES
120	RESD1CANY		FH	T116	225	26.20 to 32.00	1	350	30 (Max)	1	0			YES

低容量双向TVS

Quick Reference No.	Product No.	Grade Code		Taping Code	Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)		Remarks	Ct (pF) (Typ)			Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	General	Automotive		P_D (mW)	V_{BR} (V)	I_Z (mA)			f (MHz)	V_R (V)			
121	RASMID™ VS3V3BL1HS	*	—	T15R	100	6.00 to 10.00	1	IEC61000-4-2, 150pF, 330Ω, Contact 20kV, Air 20kV	0.34	1	0	DSN0603-2 (SMD0603B)		—
122	RASMID™ VS3V3BN1HS		—	T15R	100	6.00 to 10.00	1		0.5	1	0			—
123	RASMID™ VS5V0BL1HS		—	T15R	100	6.00 to 10.00	1	IEC61000-4-2, 150pF, 330Ω, Contact 11kV, Air 15kV	0.34	1	0			—
124	RASMID™ VS5V0BN1HS		—	T15R	100	6.00 to 10.00	1		0.5	1	0			—
125	RASMID™ VS5V0BL1QS		—	T18R	200	7.00 or more	1	IEC61000-4-2, 150pF, 330Ω, Contact 15kV, Air 15kV	0.8	1	0	DSN01006-2 (SMD1006)		—

◎RASMID™: 采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。
RASMID™ 是ROHM Co., Ltd.的商标或注册商标。
* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装。

开关二极管

●开关二极管一览表

V_R (V)	Surface Mount type							
	1006 size	1212 size	1608 size	1616 size	2120 size		2512 size	2924 size
								
	SOD-923 (VMN2M)	SOT-723 (VMD3) [SC-105AA]	SOD-523 (EMD2) [SC-79]	SOT-416FL (EMD3F) [SC-89]	SOT-323FL (UMD3F) [SC-85]	SOT-323 (UMD3) [SC-70]	SOD-323FL (UMD2) [SC-90A]	SOT-23 (SSD3)
20		DA221ZM		DA221WM				
80	1SS400CM	DAN222ZM DAP222ZM	1SS400SM	DAN222WM DAP222WM DAN217WM DA228WM	DAN202UM DAP202UM DAN217UM DA204UM DA228UM BAW156UM BAV199UM	DAN202FM DAP202FM BAV99FM BAV199FM	1SS355VM 1SS380VM	BAS16HY BAV70HY BAW56HY BAV99HY BAW156HY BAV199HY BAS116HY BAV170HY
200							BAS21VM	BAS21HY

注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

开关二极管

开关二极管
例：1SS355VMFHTE-17
型号　产品性能代码　包装代码

高速型

Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_{FM} (mA)	I_O (mA)	Isurge (mA)	V_F (V) Max	I_F (mA)	I_R (μA) Max	V_R (V)	trr (ns) Max	V_R (V)	I_F (mA)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	General	Automotive																
1SS400CM	*	—	T2R	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-923 (VMN2M)		—
1SS400SM		FH	T2R	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-523 (EMD2) [SC-79]		YES
1SS355VM		FH	TE-17	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-323FL (UMD2) [SC-90A]		YES
BAS16HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
DAN222ZM		—	T2L	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-723 (VMD3) [SC-105AA]		—
DAN222WM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F) [SC-89]		—
DAN202UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323FL (UMD3F) [SC-85]		—
DAN202FM		FH	T106	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323 (UMD3) [SC-70]		YES
BAV70HY		FH	T116	90	80	450	215*3	4,000 (1μs)	1.25	150	0.5	80	4	10*2	10	SOT-23 (SSD3)		YES
DAP222ZM		—	T2L	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-723 (VMD3) [SC-105AA]		—
DAP222WM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F) [SC-89]		—
DAP202UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323FL (UMD3F) [SC-85]		—
DAP202FM		FH	T106	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323 (UMD3) [SC-70]		YES
BAW56HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
DAN217WM		FH	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F) [SC-89]		YES
DAN217UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.2	70	4	6	5	SOT-323FL (UMD3F) [SC-85]		—
BAV99HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
BAV99FM		FH	T106	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-323 (UMD3) [SC-70]		YES
BAS21HY		FH	T116	250	200	—	200*3	10,000 (1μs)	1	100	0.1	200	50	30*2	30	SOT-23 (SSD3)		YES
BAS21VM		FH	TE-17	250	200	—	200*3	10,000 (1μs)	1	100	0.1	200	50	30*2	30	SOD-323FL (UMD2) [SC-90A]		YES

* 一般产品的产品性能代码为空白。
*1 每个元件的规格。　*2 I_R(mA)值，非V_R(V)。　*3 I_F值。
注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

开关二极管
例: 1SS355VM FH TE-17
型号 产品性能代码 包装代码

低漏失型

Product No.				Absolute Maximum Ratings (T_a=25°C)*1					Electrical Characteristics (T_a=25°C)*1							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_{FM} (mA)	I_O (mA)	Isurge (mA)	V_F (V) Max	I_F (mA)	I_R (μA) Max	V_R (V)	trr (ns) Max	V_R (V)	I_F (mA)			
	General	Automotive																
1SS380VM		FH	TE-17	80	80	225	100	400 (1s)	1.2	100	0.01	80	—	—	—	SOD-323FL (UMD2) [SC-90A]		YES
BAW156HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAW156UM		FH	TL	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-323FL (UMD3F) [SC-85]		YES
BAV199HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAV199FM		FH	T106	100	80	500	215*3	4,000 (1μs)	1.25	150	0.01	75	3,000	10*2	10	SOT-323 (UMD3) [SC-70]		YES
BAV199UM		FH	TL	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-323FL (UMD3F) [SC-85]		YES
DA204UM	*	—	TL	20	20	200	100	300 (1μs)	1.0	10	0.1	15	—	—	—			—
DA228UM		—	TL	80	80	200	100	300 (1μs)	1.2	100	0.01	80	—	—	—			—
DA221ZM		—	T2L	20	20	200	100	300 (1μs)	1	10	0.1	15	—	—	—	SOT-723 (VMD3) [SC-105AA]		—
DA221WM		—	TL	20	20	200	100	300 (1μs)	1	10	0.1	15	—	—	—	SOT-416FL (EMD3F) [SC-89]		—
DA228WM		—	TL	80	80	200	100	4,000 (1μs)	1.2	100	0.1	80	—	—	—			—
BAV170HY		FH	T116	90	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAS116HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10			YES

* 一般产品的产品性能代码为空白。
*1 每个元件的规格。 *2 I_R(mA)值，非V_R(V)。 *3 I_F值。
注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

高频二极管

●高频二极管一览表

	V_R (V)	Surface Mount type				
		1006 size		1608 size	2120 size	2512 size
		DFN1006-2W	SOD-923 (VMN2M)	SOD-523 (EMD2) [SC-79]	SOT-323 (UMD3) [SC-70]	SOD-323FL (UMD2) [SC-90A]
Band Switching Diode	35			1SS390SM	DAN235FM	
PIN Diode	50		RN141CM			
	60			RN142SM		RN142VM
Detection Schottky Diode	5	New RB886ASA	RB886CM			

注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

高频二极管

高频二极管
例: 1SS390SMFHT2R
型号 产品性能代码 包装代码

频带开关二极管

Part No.	Grade Code		Taping Code	V_R (V)	T_j (°C)	Tstg (°C)	Ct (pF) Max	V_R (V)	f (MHz)	rF (Ω) Max	I_F (mA)	f (MHz)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	General	Automotive													
1SS390SM	*	FH	T2R	35	150	−55 to +150	1.2	6	1	0.9	2	100	SOD-523 (EMD2) [SC-79]		YES
DAN235FM		FH	T106	35	150	−55 to +150	1.2	6	1	0.9	2	100	SOT-323 (UMD3) [SC-70]		YES

PIN 二极管

Part No.	Grade Code		Taping Code	V_R (V)	I_F (mA)	T_j (°C)	Tstg (°C)	Ct (pF) Max	V_R (V)	f (MHz)	rF (Ω) Max	I_F (mA)	f (MHz)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	General	Automotive														
RN141CM	*	–	T2R	50	100	150	−55 to +150	0.8	1	1	2	3	100	SOD-923 (VMN2M)		–
RN142SM		–	T2R	60	100	150	−55 to +150	0.45	1	1	3	3	100	SOD-523 (EMD2) [SC-79]		–
RN142VM		–	TE-17	60	100	150	−55 to +150	0.45	1	1	3	3	100	SOD-323FL (UMD2) [SC-90A]		–

检波肖特基势垒二极管

Part No.	Grade Code		Taping Code	V_R (V)	I_F (mA)	T_j (°C)	Tstg (°C)	V_F (V) Max	I_F (mA)	Ct (pF) Max	V_R (V)	f (MHz)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	General	Automotive													
RB886CM	*	–	T2R	5	10	125	−40 to +125	0.35	1	0.80	1	1	SOD-923 (VMN2M)		–
New RB886ASA	–	FH	T2RB	5	10	150	−55 to +150	0.35	1	0.8	1	1	DFN1006-2W		YES

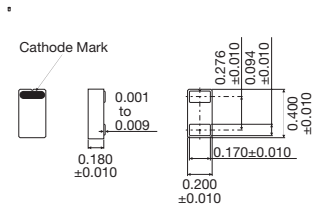
* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

封装

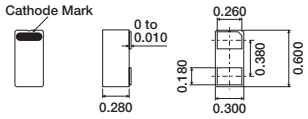
■尺寸 (单位 : mm)

表面贴装型

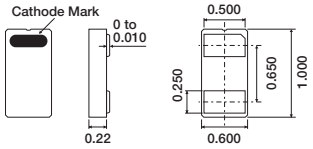
DSN0402-2 (SMD0402)



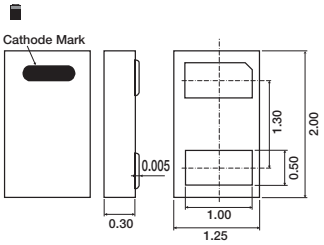
DSN0603-2 (SMD0603)
(SMD0603B)



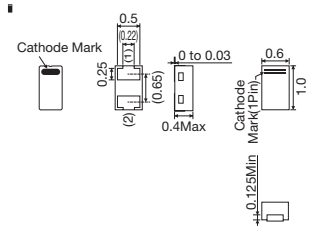
DSN1006-2 (SMD1006)



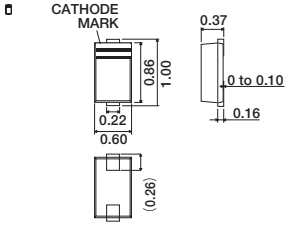
DSN2012-2 (SMD2012)



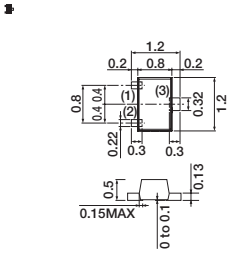
DFN1006-2W



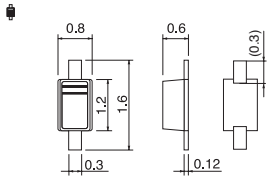
SOD-923 (VMN2M)



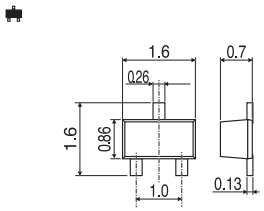
SOT-723 (VMD3) **[SC-105AA]**



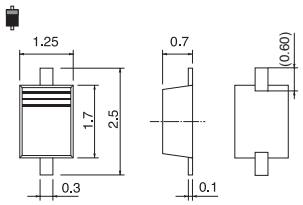
SOD-523 (EMD2) **[SC-79]**



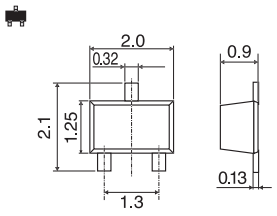
SOT-416FL (EMD3F)
[SC-89]



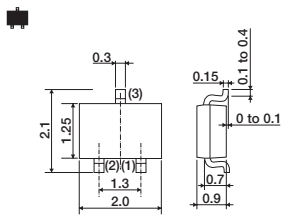
SOD-323FL (UMD2)
[SC-90A]



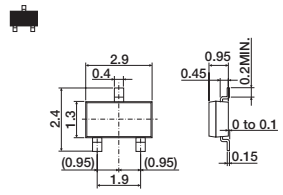
SOT-323FL (UMD3F)
[SC-85]



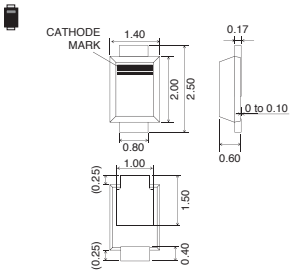
SOT-323 (UMD3)
[SC-70]



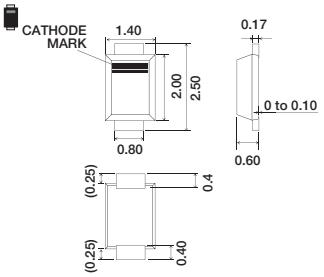
SOT-23 (SSD3)



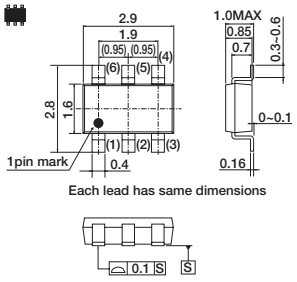
SOD-323HE (TUMD2M)
[SC-108B]



SOD-323HE (TUMD2SM)



SOT-457T (TSMD6)



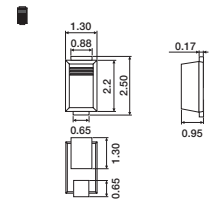
注：封装采用JEDEC表示。( )内表示ROHM封装，[ ]内表示JEITA编号。

封装

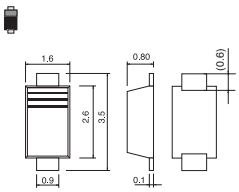
●尺寸 (单位 : mm)

表面贴装型

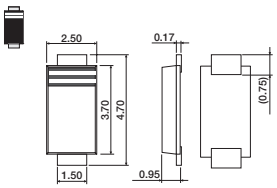
(PMDE)



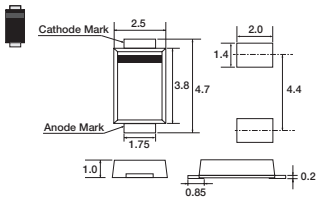
(PMDU) 〈SOD-123FL〉 **[SC-109B]**



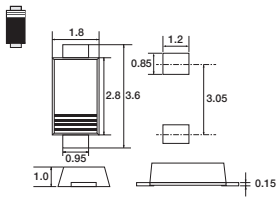
(PMDTM) 〈SOD-128〉



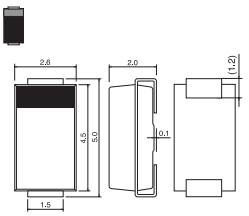
(PMDTP) 〈SOD-128〉



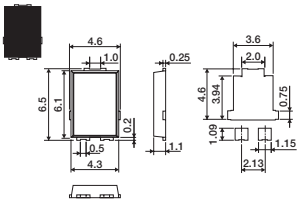
(PMDUP) 〈SOD-123FL〉



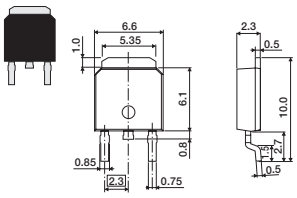
DO-214AC (PMDS) 〈SMA〉



TO-277A (TO-277GE)

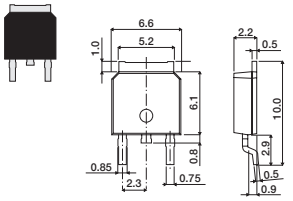


(TO-252GE) 〈DPAK〉



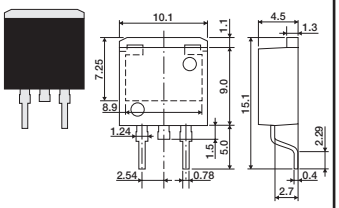
Each lead has same dimensions

TO-252 〈DPAK〉



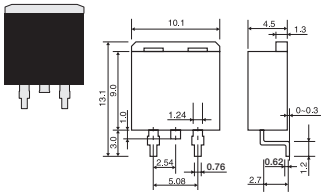
Each lead has same dimensions

TO-263L (LPDL) 〈D2PAK〉 **[SC-83]**



Each lead has same dimensions

(TO-263S) (LPDS) 〈D2PAK〉 **[SC-83]**

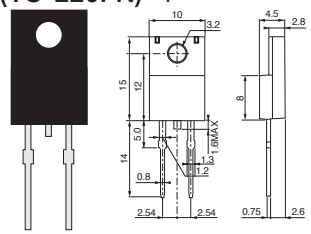


Each lead has same dimensions

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL编号，[ ]内表示JEITA编号。

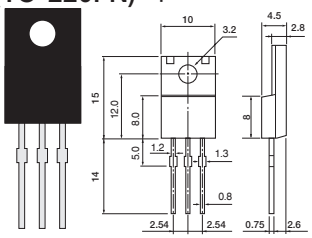
Through Hole type

(TO-220FN) <2pin>



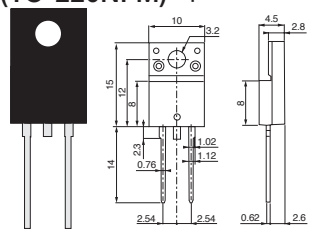
Each lead has same dimensions

(TO-220FN) <3pin>



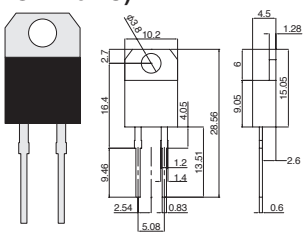
Each lead has same dimensions

(TO-220NFM) <2pin>



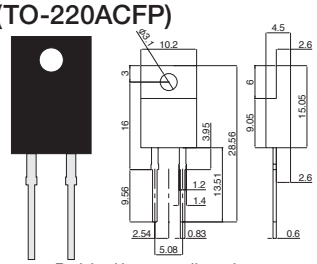
Each lead has same dimensions

(TO-220AC)



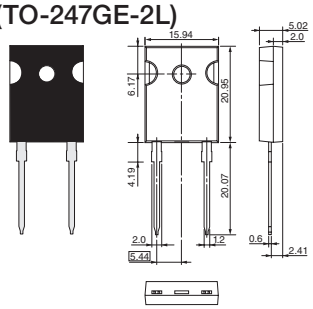
Each lead has same dimensions

(TO-220ACFP)



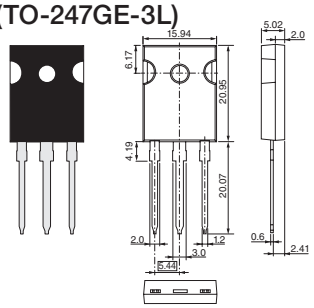
Each lead has same dimensions

TO-247-2L
(TO-247GE-2L)



Each lead has same dimensions

TO-247-3L
(TO-247GE-3L)



Each lead has same dimensions

注：封装采用JEDEC表示。( )内表示ROHM封装。

品名构成说明

・订货时，请指明品名代码
・请参照下表核对每一个代码
・请由左至右填写品名代码

•肖特基势垒二极管

例: RB751SM-40 FH T2R
型号 产品性能代码 包装代码

•快速恢复二极管

例: RF01VM2S FH TE-17
型号 产品性能代码 包装代码

•整流二极管

例: RR1VWM4S TF TR
型号 产品性能代码 包装代码

•齐纳二极管

例: EDZV FH T2R 3.6 B
型号 产品性能代码 包装代码 齐纳电压 细区分

•保护元件

例: UMZ6.8NFM FH T106
型号 产品性能代码 包装代码

•TVS

例: VS5V0UA1VWM TF TR
型号 产品性能代码 包装代码

•开关二极管

例: 1SS355VM FH TE-17
型号 产品性能代码 包装代码

•高频二极管

例: 1SS390SM FH T2R
型号 产品性能代码 包装代码

•包装代码

Package		Code	ROHM Package	JEITA code	Size	Height	Package Style	Direction	Basic Ordering Unit (pcs)
Surface Mount type	DSN0402-2	T27R	SMD0402	—	0402	0.18	Embossed tape	Cathode on sprocket hole side	27,000
		T27N					Embossed tape	Non-direction	27,000
	DSN0603-2	T15R	SMD0603	—	0603	0.28	Embossed tape	Cathode on sprocket hole side	15,000
			SMD0603B						
	DSN1006-2	T18R	SMD1006	—	1006	0.22	Embossed tape	Cathode on sprocket hole side	18,000
	DFN1006-2W	T2RB	—	—	1006	0.4	Embossed tape	Cathode on sprocket hole side	8,000
	SOT-723	T2L	VMD3	SC-105AA	1212	0.5	Embossed tape	One terminal on sprocket hole side	8,000
	SOD-923	T2R	VMN2M	—	1006	0.37	Embossed tape	Cathode on sprocket hole side	8,000
	SOD-523	T2R	EMD2	SC-79	1608	0.6	Embossed tape	Cathode on sprocket hole side	8,000
		T2N					Embossed tape	Non-direction	8,000
	SOT-416FL	TL	EMD3F	SC-89	1616	0.7	Embossed tape	One terminal on sprocket hole side	3,000
	DSN2012-2	T7R	SMD2012	—	2012	0.3	Embossed tape	Cathode on sprocket hole side	7,000
	SOD-323FL	TE-17	UMD2	SC-90A	25125	0.7	Embossed tape	Cathode on sprocket hole side	3,000
	SOT-323	T106	UMD3	SC-70	2120	0.9	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-323FL	TL	UMD3F	SC-85	2120	0.9	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-23	T116	SSD3	—	2429	0.95	Embossed tape	One terminal on sprocket hole side	3,000
	SOD-323HE	TR	TUMD2M	SC-108B	2514	0.6	Embossed tape	Cathode on sprocket hole side	3,000
		TR	TUMD2SM	—	2514	0.6	Embossed tape	Cathode on sprocket hole side	3,000
	(PMDE)	TR	PMDE	—	2513	0.95	Embossed tape	Cathode on sprocket hole side	3,000
	〈SOD-123FL〉	TR	PMDU	SC-109B	3516	0.8	Embossed tape	Cathode on sprocket hole side	3,000
	〈SOD-128〉	TR	PMDTM	—	4725	0.95	Embossed tape	Cathode on sprocket hole side	3,000
	DO-214AC 〈SMA〉	TE25	PMDS	—	5026	2	Embossed tape	Cathode on sprocket hole side	1,500
	(TO-252GE) 〈DPAK〉	TL	TO-252GE	SC-63	9866	2.3	Embossed tape	Fin on sprocket hole side	2,500
	TO-252 〈DPAK〉	TL	—	SC-63	10066	2.2	Embossed tape	Fin on sprocket hole side	2,500
	(TO-263S) 〈D2PAK〉	TL	LPDS	SC-83	131101	4.5	Embossed tape	Fin on sprocket hole side	1,000
	TO-263L 〈D2PAK〉	TL	LPDL	SC-83	151101	4.5	Embossed tape	Fin on sprocket hole side	1,000
Throuth Hole type	(TO-220FN)	C9	TO-220FN	—	29×10	4.5	Stick	box	1,000
	(TO-220NFM)	C9	TO-220NFM	—	29×10	4.5	Stick	box	1,000
	(TO-220AC)	C9	TO-220AC	—	28.56×10.2	4.5	Stick	box	1,000
	(TO-220ACFP)	C9	TO-220ACFP	—	28.56×10.2	4.5	Stick	box	1,000
	TO-247-2L	C13	TO-247GE-2L	—	41.0×15.9	5.0	Stick	box	600
	TO-247-3L	C13	TO-247GE-3L	—	41.0×15.9	5.0	Stick	box	600

注：封装采用JEDEC表示。( )内表示ROHM封装，〈 〉内表示GENERAL代码。

电阻器

电阻器尺寸一览表(分流电阻器)	P.226	电阻器尺寸一览表(厚膜贴片电阻器)	P.227
分流电阻器	P.228	高可靠性电阻器	P.236
通用电阻器	P.241	标准公称阻值等	P.246

电阻器尺寸一览表

分流电阻器

大功率金属板分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification: General-purpose	Specification: Ultra-low resistance	Specification: High Power	Resistance Range (mΩ)	Rated Power (W) (Rated Terminal Temperature)	Printing Page
5025 (2010)	GMR50				✓	✓	5 to 220	4 (90°C), 3 (110°C)	P.230
6432 (2512)	PSR100				✓	✓	☆0.2	12 (120°C)	P.228
							0.3, 0.5, 1	8 (75°C), 4 (140°C)	
							2	6 (75°C), 4 (140°C)	
							3	4 (75°C), 3 (140°C)	
	New GMR100				✓	✓	5 to 220	7 (70°C), 5 (110°C)	P.230
6464 (2525)	☆PSR330				✓	✓	0.1	15 (120°C)	P.228
							0.5	8 (100°C)	
							1	6 (100°C)	
7142 (2817)	GMR320				✓	✓	5 to 100	10 (70°C), 7 (110°C)	P.230
7.9×5.6 (3222)	New PSR350				✓	✓	0.27	12 (120°C)	P.229
10×5.2 (3921)	PSR400				✓	✓	0.2	12 (75°C), 5 (130°C)	P.228
							0.3, 0.5	10 (75°C), 5 (130°C)	
							1	8 (75°C), 5 (130°C)	
							2	6 (75°C), 4 (115°C)	
							3	5 (70°C), 3 (115°C)	
15×7.75 (5931)	PSR500				✓	✓	0.1, 0.2	15 (75°C), 10 (120°C)	P.228
							0.3, 0.4, 0.5	10 (75°C), 7 (120°C)	
							1	10 (75°C), 6 (120°C)	
							2	7 (70°C), 4 (115°C)	

☆:开发中

金属板分流电阻器产品阵容

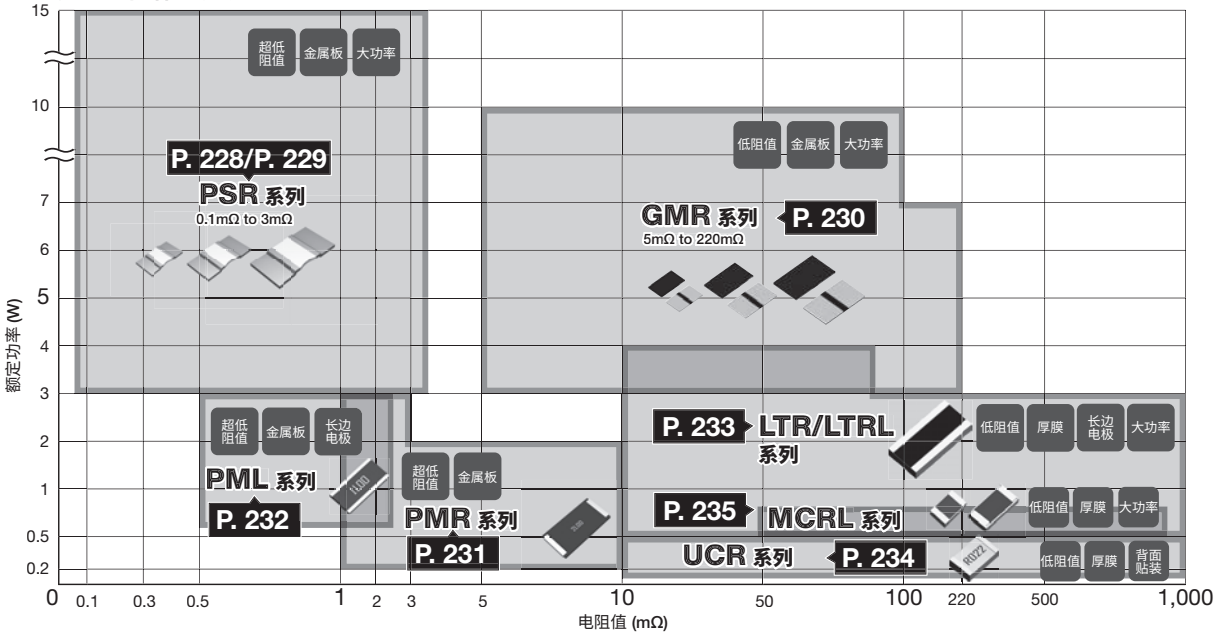
Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification: General-purpose	Specification: Ultra-low resistance	Specification: High Power	Resistance Range (mΩ)	Rated Power (W)	Printing Page
1005 (0402)	PMR01				✓		10	0.2	P.231
1608 (0603)	PMR03				✓		10	0.25	P.231
2012 (0805)	PMR10				✓		2	1	P.231
							3 to 10	0.5	
1220 (0508)	PML10	✓			✓		1 to 2.5	0.66	P.232
3216 (1206)	PMR18				✓		1, 2	1.5	P.231
							3 to 10	1	
1632 (0612)	PML18	✓			✓		0.5 to 2.5	1	P.232
3225 (1210)	PMR25				✓		1	2	P.231
							2 to 5	1	
5025 (2010)	PMR50				✓		1, 2	2	P.231
							3 to 10	1	
2550 (1020)	PML50	✓			✓		0.5, 2.2	2	P.232
6432 (2512)	PMR100				✓		1, 2	3	P.231
							3 to 10	2	
3264 (1225)	PML100	✓			✓		0.5	2	P.232
							1 to 2.2	3 (25°C), 2 (70°C)	

厚膜分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification: General-purpose	Specification: Ultra-low resistance	Specification: High Power	Resistance Range (mΩ)	Rated Power (W)	Printing Page
0603 (0201)	UCR006		✓				100 to 910	0.1	P.234
1005 (0402)	UCR01		✓				68 to 910	0.125	P.234
1608 (0603)	UCR03		✓				20 to 200	0.25	P.234
							220 to 910	0.2	
2012 (0805)	UCR10		✓				11 to 100	0.33	P.234
	New MCR10L			✓		✓	47 to 910	0.5	P.235
1220 (0508)	New LTR10L	✓				✓	33 to 910	1	P.233
3216 (1206)	UCR18		✓				11 to 39	1	P.234
							43 to 100	0.5	
	New MCR18L			✓		✓	47 to 910	0.75	P.235
1632 (0612)	LTR18	✓				✓	10 to 1000	New 1.5	P.233
2550 (1020)	LTR50	✓				✓	10 to 910	2	P.233
3264 (1225)	LTR100L	✓				✓	10 to 91	4	P.233
	LTR100	✓				✓	100 to 910	2/☆3	P.233

☆:开发中

分流电阻器一览表



电阻器尺寸一览表

厚膜贴片电阻器(通用型／高可靠型)

厚膜贴片电阻器(通用型／高可靠型)产品阵容

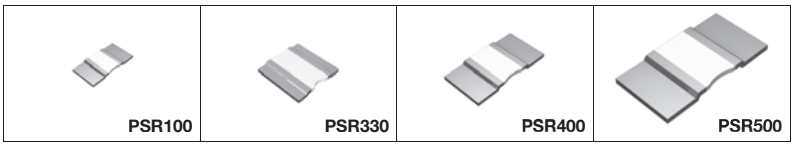
Size mm (inch)	Part No.	RASMID™ package	Terminal type Wide Terminal	Specification						Resistance Range (Ω)	Rated Power (W)	Printing Page
				General-purpose	Tolerance for Sulfurization	Anti-surge	High Anti-surge	High Power	High Voltage Resistance			
03015 (009005)	SMR003	✓								10 to 1M	0.02	P.245
0402 (01005)	MCR004			✓						1 to 3M	0.031 (1/32)	P.242
0603 (0201)	MCR006			✓						1 to 10M	0.05	P.242
1005 (0402)	ESR01					✓				1 to 10M	0.2	P.236
	SFR01				✓					1 to 10M	0.063 (1/16)	P.240
	MCR01S			✓				✓		1 to 10M	0.1	P.241
	MCR01			✓						1 to 10M	0.063 (1/16)	P.242
1608 (0603)	SDR03						✓			1 to 10M	0.3/ New 0.33 (1/3)/☆0.4	P.236
	ESR03					✓				1 to 10M	0.25/☆0.33 (1/3)	P.236
	KTR03								✓	1 to 10M	0.1	P.239
	SFR03				✓					1 to 10M	0.1	P.240
	MCR03S			✓				✓		1 to 10M	0.125	P.241
	MCR03			✓						1 to 10M	0.1	P.242
2012 (0805)	SDR10						✓			1 to 10M	0.5/☆0.66 (2/3)	P.236
	ESR10					✓				1 to 10M	0.4/☆0.5	P.236
	KTR10								✓	1 to 30M	0.125	P.239
	SFR10				✓					1 to 10M	0.125	P.240
	MCR10S			✓				✓		1 to 10M	0.25	P.241
	MCR10			✓						10 to 2.2M	0.125	P.242
										1 to 10M	0.1	
1220 (0508)	LTR10		✓			✓		✓		1 to 976	New 1	P.238
										1k to 1M	0.25	
3216 (1206)	ESR18					✓				1 to 10M	0.5/☆0.66 (2/3)	P.236
	KTR18								✓	1 to 10M	0.25	P.239
	SFR18				✓					1 to 10M	0.25	P.240
	MCR18S			✓				✓		1 to 10M	0.4	P.241
	MCR18			✓						10 to 2.2M	0.25	P.242
										1 to 10M	0.125	
1632 (0612)	LTR18		✓			✓		✓		1 to 976	New 1.5	P.238
										1k to 1M	0.75	
3225 (1210)	ESR25					✓				1 to 10M	0.66 (2/3)/☆0.75	P.236
	KTR25								✓	1 to 10M	0.33 (1/3)	P.239
	SFR25				✓					1 to 1M	0.5	P.240
5025 (2010)	☆MCR50S			✓				✓		1 to 10M	1.5	P.241
2550 (1020)	LTR50		✓			✓		✓		1 to 1M	1/☆2	P.238
3264 (1225)	LTR100		✓			✓		✓		1 to 1M	2/☆3	P.238

◎RASMID™ ：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。
RASMID™ 是ROHM Co., Ltd.的商标或注册商标。

☆：开发中

电流检测用
大功率金属板分流电阻器 超低阻值型：PSR系列

- 3W ～ 15W大功率
- 超低阻值范围(0.1mΩ及以上)
- 出色的温度特性
- 采用凸型形状



大额定值PSR系列

Part No.	Size Code mm (inch)	Rated Power (W) (Rated Terminal Temperature) Low temperature side	Rated Power (W) (Rated Terminal Temperature) High temperature side	Tolerance	Temperature* Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PSR100	6432 (2512)	12 (120°C)		F (±1%)	150±50	☆0.2	−65 to +175	YES
		8 (75°C)	4 (140°C)		0 to +150	0.3		
					0 to +100	0.5		
					0 to +100	1.0		
		6 (75°C)	4 (140°C)		0 to +50	2.0		
		4 (75°C)	3 (140°C)		0 to +50	3.0		
☆PSR330	6464 (2525)	15 (120°C)		F (±1%)	100±50	0.1		YES
		8 (100°C)			0 to +100	0.5		
		6 (100°C)			0 to +50	1.0		
PSR400	10×5.2 (3921)	12 (75°C)	5 (130°C)	F (±1%)	125±50	0.2		YES
		10 (75°C)	5 (130°C)		0 to +100	0.3		
		10 (75°C)	5 (130°C)		0 to +100	0.5		
		8 (75°C)	5 (130°C)		0 to +75	1.0		
		6 (75°C)	4 (115°C)		0 to +75	2.0		
		5 (70°C)	3 (115°C)		0 to +75	3.0		
PSR500	15×7.75 (5931)	15 (75°C)	10 (120°C)	F (±1%)	200±50	0.1		YES
		15 (75°C)	10 (120°C)		0 to +150	0.2		
		10 (75°C)	7 (120°C)		0 to +150	0.3		
		10 (75°C)	7 (120°C)		0 to +150	0.4		
		10 (75°C)	7 (120°C)		0 to +150	0.5		
		10 (75°C)	6 (120°C)		0 to +75	1.0		
		7 (70°C)	4 (115°C)		0 to +75	2.0		

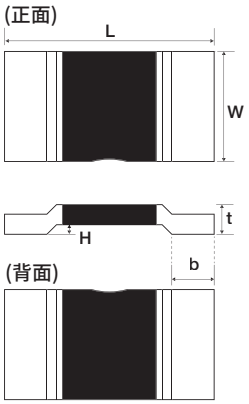
*(+20° C to +175° C)

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■尺寸 (单位：mm)

Part No.	Resistance (mΩ)	L	W	t	H	b
PSR100	0.2	6.35±0.15	3.05±0.25	1.80±0.15	0.35±0.15	1.12±0.3
	0.3			1.45±0.15		
	0.5			1.15±0.15		
	1.0			0.75±0.15		
	2.0			1.00±0.15		
	3.0			0.75±0.15		
PSR330	0.1	6.35±0.15	6.35±0.25	1.81±0.15	0.35±0.15	1.12±0.3
	0.5			0.75±0.15		
	1.0			1.00±0.15		
PSR400	0.2	10±0.3	5.2±0.3	1.9±0.15	0.5±0.15	2.0±0.6
	0.3			1.85±0.15		
	0.5			1.3±0.15		
	1.0			0.9±0.15		
	2.0			1.1±0.15		
	3.0			0.9±0.15		
PSR500	0.1	15±0.3	7.75±0.3	1.96±0.15	0.5±0.15	4.6±0.6
	0.2			1.85±0.15		4.0±0.6
	0.3			1.4±0.15		
	0.4			1.15±0.15		
	0.5			1.05±0.15		
	1.0			1.35±0.15		
	2.0			0.9±0.15		

●PSR100/330/400/500



■品名构成说明

P	S	R	4	0	0	I	T	Q	F					

型号

阻值容差

F	±1%

特殊品名代码

B	0.1mΩ	F	0.5mΩ
C	0.2mΩ	H	1.0mΩ
D	0.3mΩ	J	2.0mΩ
E	0.4mΩ	L	3.0mΩ

公称阻值

Resistance code, 4 digits.

Tolerance	Resistance code
F :	4 digits

Resistance	F
0.1mΩ	0L10
0.2mΩ	0L20
0.3mΩ	0L30
0.4mΩ	0L40
0.5mΩ	0L50
1.0mΩ	1L00
2.0mΩ	2L00
3.0mΩ	3L00

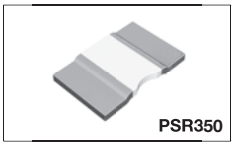
包装规格代码

Part No.	Code	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
PSR100	KTQ	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	5,000
PSR330	ITQ	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	3,000
PSR400	ITQ	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	3,000
PSR500	HTQ	◎	Embossed tape (12mm Pitch)	ϕ330mm (13inch)	2,000

◎：标准产品 卷轴 (ϕ330mm)：遵循JEITA规格 “EIAJ ET-7200B”

电流检测用
大功率金属板分流电阻器 超低阻值・薄型：PSR350

- 薄型结构非常适用于内置功率模块内
- 与大一个尺寸产品同等功率，从而节省空间
- 最大支持210A

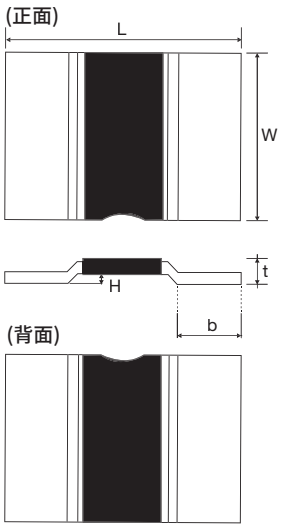


PSR350								
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
New PSR350	7.9×5.6 (3222)	12	120	F (±1%)	0 to +250	0.27	−65 to +175	YES

■尺寸 (单位 : mm)

Part No.	Resistance (mΩ)	L	W	t	H	b
PSR350	0.27	7.9±0.1	5.6±0.3	0.85±0.15	0.35±0.15	2.1±0.20

●PSR350



■品名构成说明

P S R 3 5 0 K T Q F C W 0 L 2 7

型号

阻值容差

F	±1%

特殊品名代码

CW	0.27mΩ

公称阻值

Resistance code, 4 digits.

Tolerance		Resistance code
F	:	4 digits

Resistance	F
0.27mΩ	0L27

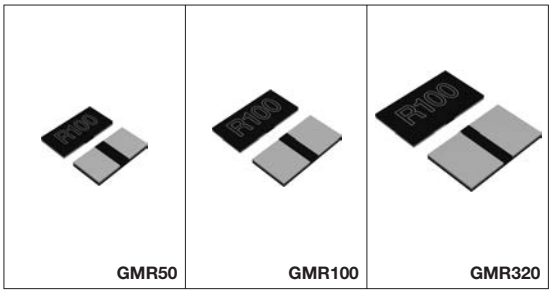
包装规格代码

Part No.	Code	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
PSR350	KTQ	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	5,000

◎：标准产品　卷轴 (ϕ330mm)：遵循JEITA规格 “EIAJ ET-7200B”

电流检测用
大功率金属板分流电阻器：GMR系列

- 3W～10W大功率
- 出色的散热性能
- 出色的温度特性
- 阻值范围5mΩ～220mΩ



GMR50　GMR100　GMR320

GMR系列

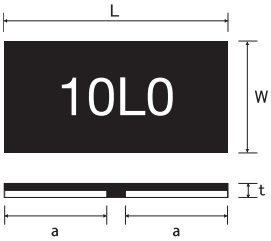
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Terminal Temperature (°C)	Tolerance	Temperature*1 Coefficient (ppm/°C)	Resistance Range (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
GMR50	5025 (2010)	4	90	F (±1%)	0 to +25	5	−65 to +170	YES
					±25	10 to 220 (E24 series)*2		
		3	110	F (±1%)	0 to +25	5		
					±25	10 to 220 (E24 series)*2		
New GMR100	6432 (2512)	7	70	F (±1%)	0 to +50	5		YES
					±20	10 to 220 (E24 series)*2		
		5	110	F (±1%)	0 to +50	5		
					±20	10 to 220 (E24 series)*2		
GMR320	7142 (2817)	10	70	F (±1%)	0 to +50	5		YES
					±25	10 to 100 (E24 series)*2		
		7	110	F (±1%)	0 to +50	5		
					±25	10 to 100 (E24 series)*2		

*1 (+20° C to +60° C)
*2 每个电阻值的开发日程不同。请另行联系。

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a
GMR50	5025 (2010)	5.00±0.25	2.50±0.25	0.40±0.15	2.05±0.25
GMR100	6432 (2512)	6.40±0.25	3.20±0.25	0.40±0.15	2.75±0.25
GMR320	7142 (2817)	7.10±0.25	4.20±0.25	0.40±0.15	3.10±0.25

●GMR50/100/320



■品名构成说明

G M R 1 0 0 H J A A F D □ □ □ □

型号

产品规格

JA	5mΩ
JB	10mΩ≤R<100mΩ
JC	≥100mΩ

A	Outside E24 series

阻值容差

F	±1%

特殊品名代码

A	10mΩ, 100mΩ
D	5mΩ
E	15mΩ, 150mΩ
G	18mΩ
I	22mΩ, 220mΩ
K	27mΩ
M	33mΩ
Q	47mΩ
U	68mΩ
W	82mΩ

公称阻值

Resistance code, 4 digits.

Tolerance		Resistance code
F	:	4 digits

Resistance	F
5mΩ	5L00
10mΩ	10L0
15mΩ	R015
22mΩ	R022
27mΩ	R027
33mΩ	R033
47mΩ	R047
68mΩ	R068
82mΩ	R082
100mΩ	R100
150mΩ	R150
220mΩ	R220

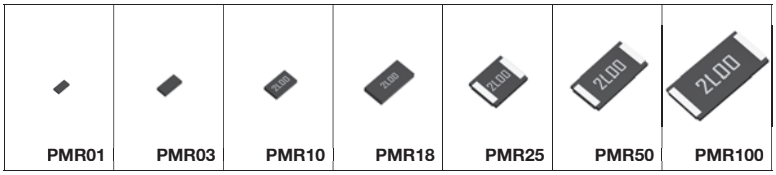
包装规格代码

Part No.	Code	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
GMR50	H	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
GMR100	H	◎	Embossed tape (8mm Pitch)	ϕ180mm (7inch)	2,000
GMR320	H	◎	Embossed tape (8mm Pitch)	ϕ180mm (7inch)	2,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

电流检测用
金属板分流电阻器 超低阻值型：PMR系列

- 电流检测用贴片电阻器(1mΩ及以上)
- 采用无微调结构，避免热集中，减少表面温度上升
- 电阻体采用特殊合金，实现出色的温度特性



提高额定功率的PMR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR10	2012 (0805)	1	—	130	F (±1%) J (±5%)	±100	2	−65 to +155	YES
PMR18	3216 (1206)	1.5	—	130	F (±1%) J (±5%)	±100	1, 2		YES
PMR25	3225 (1210)	2	—	130	F (±1%) J (±5%)	±75	1	−65 to +175	YES
PMR50	5025 (2010)	2	—	130	F (±1%) J (±5%)	±75	1, 2		YES
PMR100	6432 (2512)	3	—	130	F (±1%) J (±5%)	±75 ±150	1, 2		YES

PMR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR01	1005 (0402)	0.2	70	—	J (±5%)	0 to 200	10	−55 to +155	YES
PMR03	1608 (0603)	0.25	70	—	F (±1%) J (±5%)	0 to 150	10		YES
PMR10	2012 (0805)	0.5	70	—	F (±1%) J (±5%)	±150	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR18	3216 (1206)	1	70	—	F (±1%) J (±5%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR25	3225 (1210)	1	70	—	F (±1%) J (±5%)	±100	2, 3, 4, 5		YES
PMR50	5025 (2010)	1	70	—	F (±1%) J (±5%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR100	6432 (2512)	2	70	—	F (±1%) J (±5%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES

大电流跳线类型

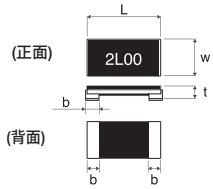
Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR01	1005 (0402)	20.0	0.5mΩ Max	−55 to +155	YES
PMR03	1608 (0603)	22.4			YES
PMR10	2012 (0805)	31.6			YES
PMR18	3216 (1206)	38.7			YES
PMR25	3225 (1210)	44.7			YES
PMR50	5025 (2010)	50.0			YES
PMR100	6432 (2512)	63.2			YES

■尺寸 (单位：mm)

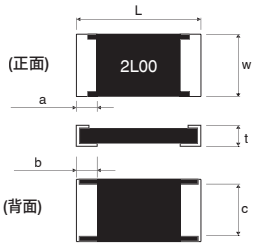
Part No.	Size Code mm (inch)	L	W	t	a	b	c
PMR01	1005 (0402)	1.0±0.05	0.5±0.05	0.25±0.1	—	0.25±0.10	—
PMR03	1608 (0603)	1.6±0.15	0.8±0.15	0.25±0.1	—	0.35±0.15	—
PMR10	2012 (0805)	2.0±0.15	1.2±0.15	0.42 to 0.28*±0.15	—	0.75 to 0.35*±0.25	—
PMR18	3216 (1206)	3.2±0.15	1.6±0.15	0.44 to 0.28*±0.15	—	1.20 to 0.5 *±0.25	—
PMR25	3225 (1210)	3.2±0.2	2.5±0.2	0.52 to 0.32*±0.15	0.5±0.2	1.00 to 0.8 *±0.2	1.95±0.2
PMR50	5025 (2010)	5.0±0.2	2.5±0.2	0.52 to 0.32*±0.15	0.5±0.2	1.85 to 0.9 *±0.2	1.95±0.2
PMR100	6432 (2512)	6.4±0.25	3.2±0.25	0.52 to 0.32*±0.15	0.5±0.25	2.3 to 1.1 *±0.25	2.65±0.25

*根据阻值不同而有所不同。详情请咨询罗姆的销售代表。

●PMR01/03(无标记)
●PMR10/18



●PMR25/50/100



■品名构成说明

P M R 2 5 H Z P J V □ □ □ □

型号

阻值容差

F	±1%
J	±5%

J is also used for jumper

特殊品名代码

V	1mΩ to 4mΩ
U	5mΩ to 10mΩ

*跳线类型无特殊编号

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

Resistance Value (Ω)	Tolerance J	Tolerance F
Jumper	000	—
1mΩ	1L0	1L00
2mΩ	2L0	2L00
3mΩ	3L0	3L00
4mΩ	4L0	4L00
5mΩ	5L0	5L00
6mΩ	6L0	6L00
7mΩ	7L0	7L00
8mΩ	8L0	8L00
9mΩ	9L0	9L00
10mΩ	10L	10L0

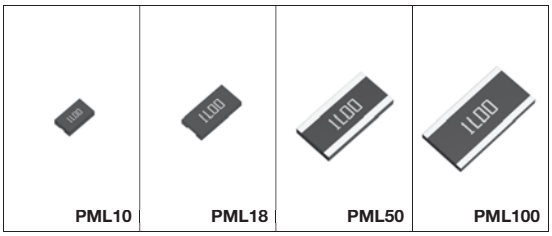
包装规格代码

Part No.	Code	Tolerance J (±5%)	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
PMR01	ZZP	◎	—	Embossed tape (2mm Pitch)	ϕ180mm (7inch)	10,000
PMR03	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PMR10	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PMR18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PMR25	HZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
PMR50	HZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
PMR100	HZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

电流检测用
金属板分流电阻器 超低阻值・长边电极型：PML系列

- 超低阻值范围(0.5mΩ及以上)
- 采用长边电极结构，提高接合可靠性和散热性
- 采用无微调结构，避免热集中，减少表面温度上升



PML系列

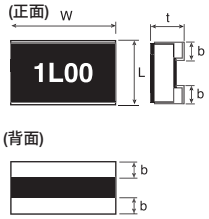
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PML10	1220 (0508)	0.66 (2/3)	70	G (±2%) J (±5%)	±200	1.0, 1.5, 2.0, 2.5	−55 to +155	YES
PML18	1632 (0612)	1	70	G (±2%) J (±5%)	±150	0.5, 1.0, 1.5, 2.0, 2.5		YES
PML50	2550 (1020)	2	70	J (±5%)	±150	0.5		YES
					±100	2.2		
PML100	3264 (1225)	2	70	J (±5%)	±150	0.5		YES
		2	70		±100	1.0, 1.5, 2.0, 2.2		
		3	25					

■尺寸 (单位 : mm)

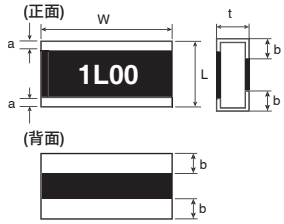
Part No.	Size Code mm (inch)	L	W	t	a	b
PML10	1220 (0508)	1.2±0.15	2.0±0.15	0.42 to 0.28* ±0.15	—	0.45 to 0.35* ±0.25
PML18	1632 (0612)	1.6±0.15	3.2±0.15	0.42 to 0.28* ±0.15	—	0.55 to 0.35* ±0.25
PML50	2550 (1020)	2.6±0.20	5.0±0.2	0.5 to 0.36* ±0.15	0.4±0.2	0.75 to 0.7* ±0.2
PML100	3264 (1225)	3.2±0.25	6.4±0.25	0.5 to 0.36* ±0.15	0.45±0.25	0.9 to 0.7* ±0.25

*根据阻值不同而有所不同。详情请咨询罗姆的销售代表。

●PML10/18



●PML50/100



■品名构成说明

P M L 5 0 | H Z P | J | V □ □ □ | □

- P M L 5 0 — 型号
- H Z P — 阻值容差

G	±2%
J	±5%

- J — 特殊品名代码
- V □ □ □ — 公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
G	:	4 digits
J	:	3 digits

Resistance Value (Ω)	Tolerance J	Tolerance G
0.5mΩ	0L5	0L50
1mΩ	1L0	1L00
1.5mΩ	1L5	1L50
2mΩ	2L0	2L00
2.2mΩ	2L2	—
2.5mΩ	2L5	2L50

- □ — 包装规格代码

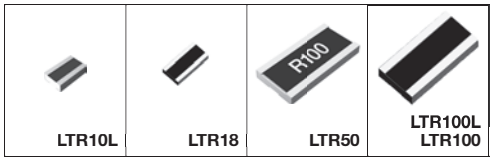
包装规格代码

Part No.	Code	Tolerance J (±5%)	Tolerance G (±2%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
PML10	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PML18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PML50	HZP	◎	—	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
PML100	HZP	◎	—	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

电流检测用
大功率厚膜分流电阻器 长边电极型：LTR/LTRL系列

- 电流检测用贴片电阻器(10mΩ及以上)
- 通过采用长边电极结构，大幅提高对于温度变化的连接可靠性
- 额定功率大，可与小尺寸产品进行替换



LTR/LTRL系列

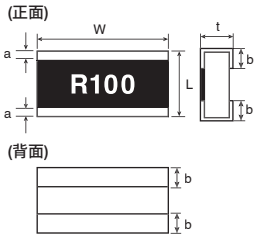
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
New LTR10L	1220 (0508)	1	70	125	D (±0.5%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)	−55 to +155	YES
					F (±1%) J (±5%)	0 to 150 0 to 100	33mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)		
LTR18	1632 (0612)	New 1.5	70	95	F (±1%) J (±5%)	0 to 300 0 to 200 0 to 150 ±100	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 470mΩ (E24 series) 510mΩ to 1Ω (E24 series)		YES
LTR50	2550 (1020)	2	70	—	F (±1%) J (±5%)	0 to 300 0 to 200 0 to 150 ±100	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 91mΩ (E24 series) 100mΩ to 910mΩ (E24 series)		YES
LTR100L	3264 (1225)	4	70	110	F (±1%) J (±5%)	0 to 300 0 to 200 0 to 150	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 91mΩ (E24 series)	−65 to +155	YES
LTR100		2	70	—	F (±1%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)	−55 to +155	YES
					J (±5%)	±200	100mΩ to 910mΩ (E24 series)		
		☆3	70	☆110	F (±1%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)		YES
					J (±5%)	±200	100mΩ to 910mΩ (E24 series)		

☆：开发中

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
LTR10L	1220 (0508)	1.25±0.15	2.0±0.15	0.55±0.1	0.28±0.15	0.35±0.2
LTR18	1632 (0612)	1.6±0.1	3.2±0.1	0.58±0.1	0.5±0.2	0.5±0.2
LTR50	2550 (1020)	2.5±0.15	5.0±0.15	0.58±0.15	0.38±0.2	0.9±0.2
LTR100L	3264 (1225)	3.1±0.15	6.4±0.15	0.58±0.15	0.5±0.25	1.0±0.25
LTR100		3.2±0.15	6.4±0.15	0.55±0.15	0.4±0.25	1.13±0.25

●LTR10L/LTR18/LTR100L/LTR100(无标记)
●LTR50(标记)



■品名构成说明

L	T	R	1	0	L	E	Z	P	F	L				

型号

阻值容差

D	±0.5%
F	±1%
J	±5%

特殊品名代码

U	10mΩ
S	11mΩ to 91mΩ
L	100mΩ or more

公称阻值

Resistance code, 3 or 4 digits.

Tolerance + Special part code	Resistance code
DL, FU, FS, FL, JS :	4 digits
JU, JL :	3 digits

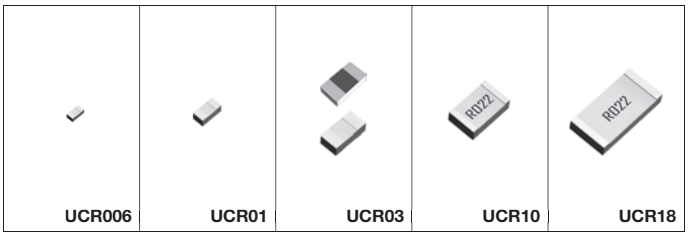
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
LTR10L*	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR50	UZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR100L	JZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000
LTR100	JZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

◎: 标准产品
*LTR10L 100mΩ to 910mΩ对应D级(±0.5%)

电流检测用
厚膜分流电阻器 背面贴装型：UCR系列

- 电流检测用贴片电阻器(11mΩ及以上)
- 采用背面贴装结构，减少贴装时的阻值偏差
- 采用自有的散热设计，实现出色的额定功率



UCR系列

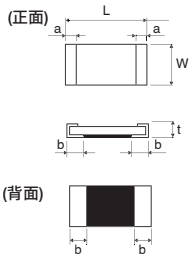
Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
UCR006	0603 (0201)	0.1	F (±1%) J (±5%)	0 to 300	100mΩ to 910mΩ (E24 series)	−55 to +155	YES
UCR01	1005 (0402)	0.125	F (±1%) J (±5%)	0 to 300 0 to 250 0 to 200	68mΩ to 91mΩ (E24 series) 100mΩ to 200mΩ (E24 series) 220mΩ to 910mΩ (E24 series)		YES
UCR03	1608 (0603)	0.25	F (±1%) J (±5%)	0 to 250 0 to 200 0 to 150	20mΩ to 47mΩ (E24 series) 50mΩ to 91mΩ (E24 series) 100mΩ to 200mΩ (E24 series)		YES*
		0.2	F (±1%) J (±5%)	0 to 150	220mΩ to 910mΩ (E24 series)		
UCR10	2012 (0805)	0.33 (1/3)	F (±1%) J (±5%)	250±200 0 to 250 0 to 150	11mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 100mΩ (E24 series)		YES
UCR18	3216 (1206)	1	F (±1%) J (±5%)	0 to 350 0 to 200	11mΩ to 18mΩ (E24 series) 20mΩ to 39mΩ (E24 series)		YES
		0.5	F (±1%) J (±5%)	0 to 150	43mΩ to 100mΩ (E24 series)		

*仅限100mΩ及以上

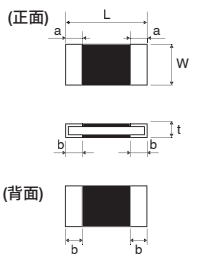
■尺寸 (单位 : mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
UCR006	0603 (0201)	0.62±0.05	0.32±0.05	0.24±0.05	0.18±0.1	0.22±0.1
UCR01	1005 (0402)	1.0±0.1	0.55±0.1	0.37±0.05	0.28±0.1	0.34±0.1
UCR03	1608 (0603)	1.6±0.1	0.87±0.1	0.5±0.1	0.45±0.2	0.45±0.2
UCR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.24±0.2	0.5±0.2
UCR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.2	0.9±0.25

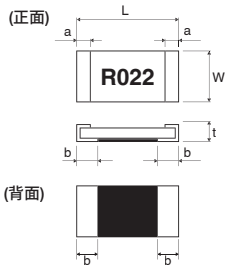
●UCR006/01 (无标记)
●UCR03 (无标记) (50mΩ≤R≤910mΩ)



●UCR03 (无标记) (20mΩ≤R<50mΩ)



●UCR10/18



■品名构成说明

U C R 1 0 E V H F S □ □ □ □

型号

阻值容差

F	±1%
J	±5%

特殊品名代码

S	11mΩ to 91mΩ
L	100mΩ to 910mΩ

公称阻值

Resistance code, 3 or 4 digits.

Tolerance +Special P/N	Resistance code
FS, FL, JS	: 4 digits
JL	: 3 digits

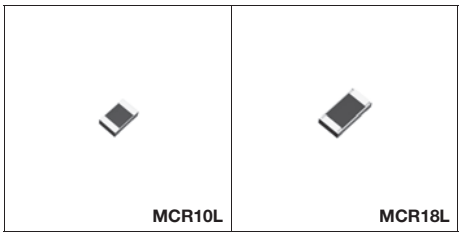
包装规格代码

Part No.	Code	Tolerance J (±5%)	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)	Remarks
UCR006	YVP	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	15,000	—
UCR01	MVP	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000	—
UCR03	EWP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	20mΩ to 47mΩ
	EVP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	51mΩ to 910mΩ
UCR10	EVH	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	—
UCR18	EVH	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	—

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

电流检测用
通用贴片电阻器 低电阻值・大功率型：MCRL系列

- 通过电阻元件的重新布线，实现了与大一个尺寸产品同等的额定功率
- 低阻值 (47mΩ及以上)，厚电阻体
- 采用了金属釉阻体的高可靠性贴片电阻器



MCR L系列

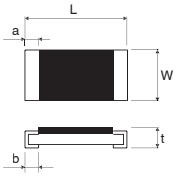
Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
New MCR10L	2012 (0805)	0.5	F (±1%) J (±5%)	0 to 250	47mΩ to 110mΩ (E24 series)	−55 to 155	YES
				0 to 150	120mΩ to 910mΩ (E24 series)		
New MCR18L	3216 (1206)	0.75	F (±1%) J (±5%)	0 to 250	47mΩ to 91mΩ (E24 series)		YES
				0 to 150	100mΩ to 910mΩ (E24 series)		

■尺寸 (单位 : mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR10L	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.60±0.20*1 0.45±0.20*2	0.40±0.20
MCR18L	3216 (1206)	3.20+0.15 −0.20	1.6±0.15	0.55±0.1	0.90±0.20*1 0.75±0.20*2	0.50±0.25

*1 电阻值范围：47mΩ ～ 110mΩ
*2 电阻值范围：120mΩ ～ 910mΩ

●MCR10L/18L(无标记)



■品名构成说明

M C R 1 0 L E Q P J L □ □ □ □

型号

阻值容差

F	±1%
J	±5%

特殊品名代码

S	47mΩ to 91mΩ
L	100mΩ to 910mΩ

公称阻值

Resistance code, 3 or 4 digits.

Tolerance +Special P/N		Resistance code
FL, FS, JS	:	4 digits
JL	:	3 digits

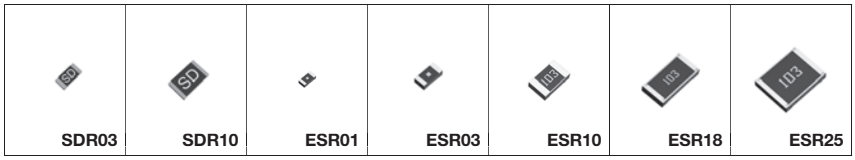
包装规格代码

Part No.	Code	Tolerance J(±5%)	Tolerance F(±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
MCR10L	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR18L	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

高可靠性
高抗浪涌贴片电阻器：SDR系列
抗浪涌贴片电阻器：ESR系列

- 采用自有的电阻元件布线、微调技术，大幅提升抗浪涌特性
- 额定功率比通用系列产品大，有助于设备省空间设计



SDR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SDR03	1608 (0603)	0.3	70	—	150	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)	−55 to +155	YES
						F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
							±100	10Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
		New 0.33 (1/3)	70	125	150	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
							±100	10Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
		☆0.4	70	105	150	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
							±100	10Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
SDR10	2012 (0805)	0.5	70	New 115	400	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
		☆0.66 (2/3)	70	105	400	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		

ESR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
ESR01	1005 (0402)	0.2	70	—	75	F (±1%)	±200	10Ω to 976kΩ (E24, E96 series) 1MΩ to 2.2MΩ (E24 series)	−55 to +155	YES
						J (±5%)	+500/−200	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
ESR03	1608 (0603)	0.25	70	—	150	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
							±100	10Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
		☆0.33 (1/3)	70	130	150	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
							±100	10Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
ESR10	2012 (0805)	0.4	70	—	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
		☆0.5	70	115	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
ESR18	3216 (1206)	0.5	70	—	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
		☆0.66 (2/3)	70	105	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
ESR25	3225 (1210)	0.66 (2/3)	70	—	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
		☆0.75	70	95	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		

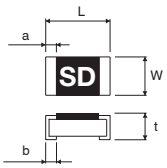
*E24：标准品/E96：订购生产品

☆：开发中

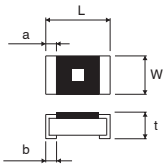
■尺寸 (单位 : mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SDR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.25±0.1	0.25±0.1
SDR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.25±0.1	0.4±0.2
ESR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	$0.25^{+0.05}_{-0.1}$
ESR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
ESR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.3±0.2	0.4±0.2
ESR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.25	0.5±0.25
ESR25	3225 (1210)	3.2±0.15	2.5±0.15	0.55±0.1	0.3±0.25	0.5±0.25

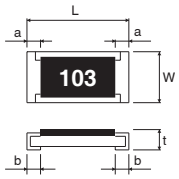
●SDR03/10
(有“SD”标记)



●ESR01/03
(有“■”标记)



●ESR10/18/25



■品名构成说明

E S R 1 0 E Z P J □ □ □ □

型号

阻值容差

D	±0.5%
F	±1%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
D, F	:	4 digits
J	:	3 digits

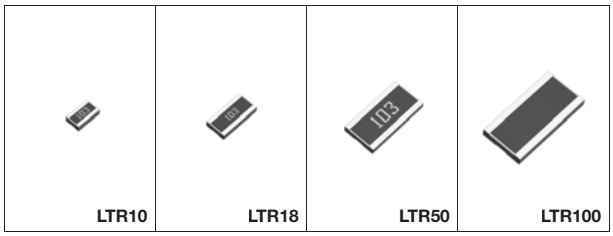
包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
SDR03	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
SDR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR01	MZP	◎	◎	—	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
ESR03	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR18	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR25	JZP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

高可靠性
大功率&抗电涌贴片电阻器 长边电极型：LTR系列

- 通过采用长边电极结构，大幅提升对于温度变化的连接可靠性
- 额定功率比通用系列产品大，有助于设备省空间设计
- 通过不使电流集中的电阻元件设计，大幅提升抗电涌特性



LTR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
LTR10	1220 (0508)	New 1	70	125	150	D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)	−55 to +155	YES
						F (±1%)	±100	1Ω to 976Ω (E24, E96 series)		
						J (±5%)	±200	1Ω to 976Ω (E24 series)		
		0.25	70	—		D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1kΩ to 1MΩ (E24 series)		
LTR18	1632 (0612)	New 1.5	70	95	200	D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 976Ω (E24, E96 series)		
						J (±5%)	±200	1Ω to 976Ω (E24 series)		
		0.75	70	—		D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1kΩ to 1MΩ (E24 series)		
LTR50	2550 (1020)	1	70	—	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		
		☆2	70	95		D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		
LTR100	3264 (1225)	2	70	—	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		
		☆3	70	110		D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		

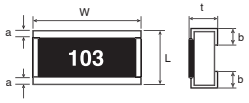
*E24：标准品/E96：订购生产品

☆：开发中

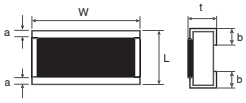
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
LTR10	1220 (0508)	1.2±0.1	2.0±0.1	0.55±0.1	0.25±0.1	0.35±0.2
LTR18	1632 (0612)	1.6±0.15	3.2±0.15	0.55±0.1	0.3±0.2	0.5±0.2
LTR50	2550 (1020)	2.5±0.15	5.0±0.15	0.55±0.1	0.38±0.2	0.9±0.2
LTR100	3264 (1225)	3.2±0.15	6.4±0.15	0.55±0.15	0.4±0.25	1.13±0.25

●LTR10/18/50



●LTR100(无标记)



■品名构成说明



型号

阻值容差

D	±0.5%
F	±1%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
D, F	:	4 digits
J	:	3 digits

包装规格代码

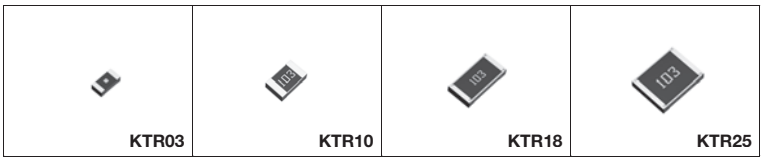
Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
LTR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR18	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR50	UZP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR100	JZP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”

◎: 标准产品

高可靠性
高耐压贴片电阻器：KTR系列

- 元件最高电压是通用系列产品的2倍以上
- 适用于高电压负载的分压电路



KTR系列

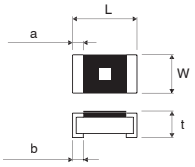
Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
KTR03	1608 (0603)	0.1	350	F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)	−55 to +155	YES
					±100	10Ω to 10MΩ (E24, E96 series)		
				J (±5%)	±200	1Ω to 10MΩ (E24 series)		
KTR10	2012 (0805)	0.125	400	F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 30MΩ (E24 series)		
KTR18	3216 (1206)	0.25	500	F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 10MΩ (E24 series)		
KTR25	3225 (1210)	0.33 (1/3)	600	F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 10MΩ (E24 series)		

*E24：标准品/E96：订购生产品

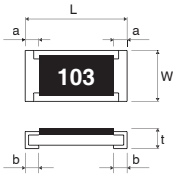
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
KTR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
KTR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.3±0.2	0.4±0.2
KTR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.25	0.5±0.25
KTR25	3225 (1210)	3.2±0.15	2.5±0.15	0.55±0.1	0.3±0.25	0.5±0.25

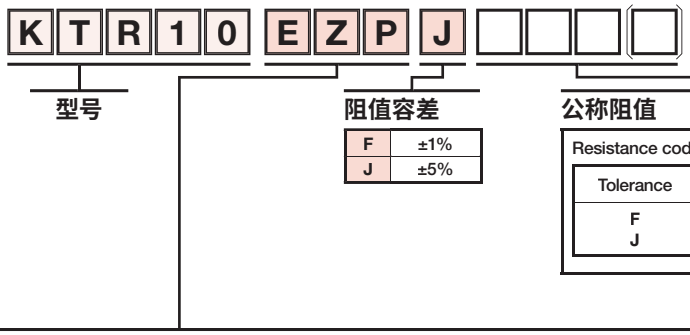
●KTR03
(有"■"标记)



●KTR10/18/25



■品名构成说明



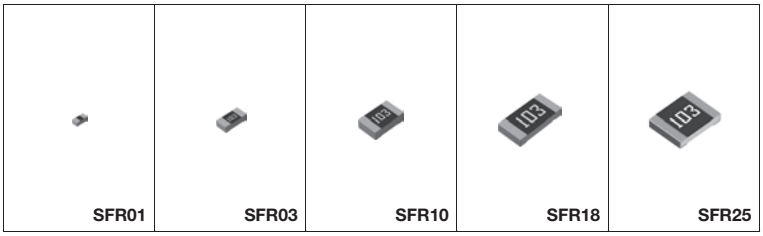
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
KTR03	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
KTR10	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
KTR18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
KTR25	JZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格 " EIAJ ET-7200B"
◎: 标准产品

高可靠性
抗硫化贴片电阻器：SFR系列

•采用罗姆自有的结构，大幅提升抗硫化性能



SFR系列

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SFR01	1005 (0402)	0.063 (1/16)	50	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)	−55 to +155	YES
				J (±5%)	+500/−250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR03	1608 (0603)	0.1	50	F (±1%)	±100	10Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR10	2012 (0805)	0.125	150	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		YES
				J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR18	3216 (1206)	0.25	200	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		YES
				J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR25	3225 (1210)	0.5	200	F (±1%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 1MΩ (E24 series)		

*E24：标准品/E96：订购生产品

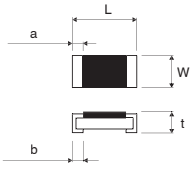
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
SFR01	1005 (0402)	1	50mΩ Max	−55 to +155°C	YES
SFR03	1608 (0603)	1			YES
SFR10	2012 (0805)	2			YES
SFR18	3216 (1206)	2			YES
SFR25	3225 (1210)	2			YES

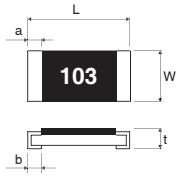
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SFR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.33±0.08	$0.25^{+0.05}_{-0.10}$
SFR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.4±0.2	0.3±0.2
SFR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2
SFR18	3216 (1206)	$3.2^{+0.15}_{-0.20}$	1.6±0.15	0.55±0.1	0.55±0.25	0.5±0.25
SFR25	3225 (1210)	$3.2^{+0.15}_{-0.20}$	2.5±0.15	0.55±0.1	0.55±0.25	0.5±0.25

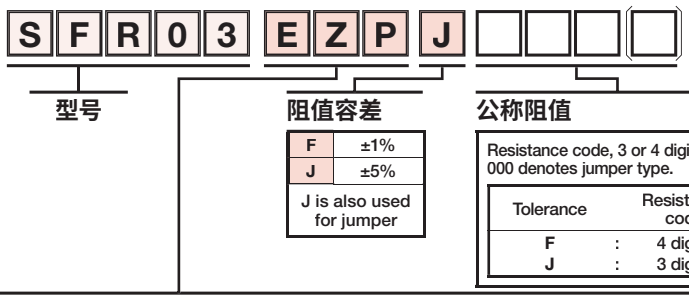
●SFR01(无标记)



●SFR03/10/18/25



■品名构成说明



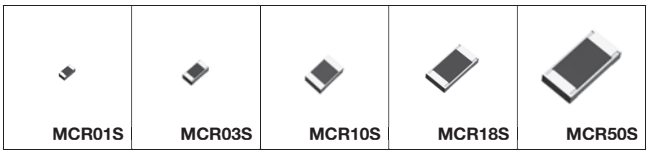
包装规格代码

Part No.	Code	Tolerance J (±5%)	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
SFR01	MZP	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
SFR03	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
SFR10	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
SFR18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
SFR25	JZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

通用贴片电阻器 大功率型：MCRS系列

- 通过电阻元件的重新布线，相比以往MCR系列，实现了与大一个尺寸产品同等的额定功率保证。
- 实现了电路的省空间化
  (1608→1005尺寸的替换减少了约60%的面积)



MCRS系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR01S	1005 (0402)	0.1	70	—	75	F (±1%)	±100	10Ω to 10MΩ (E24, E96 series)	−55 to +155	YES
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
MCR03S	1608 (0603)	0.125	70	—	150	F (±1%)	±100	10Ω to 10MΩ (E24, E96 series)		YES
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
MCR10S	2012 (0805)	0.25	70	—	200	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		YES
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
MCR18S	3216 (1206)	0.4	70	—	200	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		YES
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
☆MCR50S	5025 (2010)	1.5	70	110	200	F (±1%)	±200	1Ω to 9.1Ω (E24 series)		YES
							±100	10Ω to 2.2MΩ (E24, E96 series)		
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		

*E24：标准品/E96：订购生产品　　☆：开发中

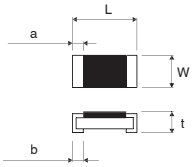
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR01S	1005 (0402)	1.5	50mΩ Max	−55 to +155	YES
MCR03S	1608 (0603)	2			YES
MCR10S	2012 (0805)	2.5			YES
MCR18S	3216 (1206)	2.5			YES
MCR50S	5025 (2010)	4			YES

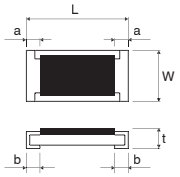
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR01S	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	$0.25^{+0.05}_{-0.10}$
MCR03S	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
MCR10S	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2
MCR18S	3216 (1206)	$3.2^{+0.15}_{-0.20}$	1.6±0.15	0.55±0.1	0.5±0.25	0.5±0.25
MCR50S	5025 (2012)	5.0±0.15	2.5±0.15	0.55±0.15	0.5±0.25	0.5±0.25

●MCR01S/03S
(无标记)



●MCR10S/18S/50S
(无标记)



■品名构成说明

M C R 0 3 S E Q P J □ □ □ □

型号

阻值容差

F	±1%
J	±5%

J is also used for jumper

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

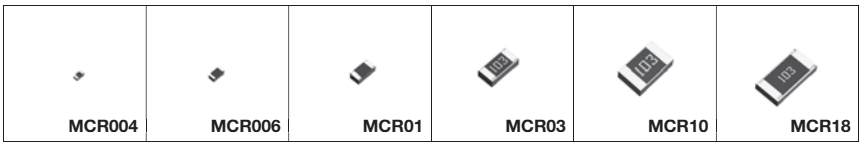
包装规格代码

Part No.	Code	Tolerance J(±5%)	Tolerance F(±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
MCR01S	MQP	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MCR03S	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR10S	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR18S	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR50S	JQP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

通用贴片电阻器：MCR系列

- 将高可靠性贴片电阻器应用于各种电子产品中
  - ·提供从01005到1206尺寸的6种封装规格
  - ·可穿戴式、便携式设备到车载、工业等设备均有广泛采用实绩



MCR系列

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR004	0402 (01005)	0.031 (1/32)	15	F (±1%)	±300	10Ω to 97.6Ω (E24, E96 series)	−55 to +125	—
					±250	100Ω to 3MΩ (E24, E96 series)		
				J (±5%)	+600/−100	1Ω to 9.1Ω (E24 series)		
					±300	10Ω to 91Ω (E24 series)		
					±250	100Ω to 3MΩ (E24 series)		
MCR006	0603 (0201)	0.05	25	D (±0.5%)	±200	10Ω to 976Ω (E24, E96 series)		YES
					±100	1kΩ to 1MΩ (E24, E96 series)		
				F (±1%)	+600/−200	1Ω to 9.1Ω (E24 series)		
					±100	10Ω to 10MΩ (E24, E96 series)		
				J (±5%)	+600/−200	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR01	1005 (0402)	0.063 (1/16)	50	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)	−55 to +155	YES
					±50	100Ω to 1MΩ (E24, E96 series)		
				F (±1%)	±400	1Ω to 9.1Ω (E24 series)		
					±100	10Ω to 2.2MΩ (E24, E96 series)		
				J (±5%)	+500/−250	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR03	1608 (0603)	0.1	50	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)		YES
					±50	100Ω to 1MΩ (E24, E96 series)		
				F (±1%)	±400	1Ω to 9.1Ω (E24 series)		
					±100	10Ω to 10MΩ (E24, E96 series)		
				J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR10	2012 (0805)	0.125	150	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)		YES
					±50	100Ω to 1MΩ (E24, E96 series)		
				F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		
		0.1		J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR18	3216 (1206)	0.25	200	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)		YES
					±50	100Ω to 1MΩ (E24, E96 series)		
				F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		
		0.125		J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		

*E24：标准品/E96：订购生产品

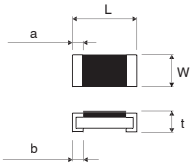
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR004	0402 (01005)	0.5	50mΩ Max	−55 to +125	—
MCR006	0603 (0201)	0.5			YES
MCR01	1005 (0402)	1		−55 to +155	YES
MCR03	1608 (0603)	1			YES
MCR10	2012 (0805)	2			YES
MCR18	3216 (1206)	2			YES

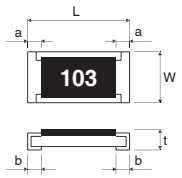
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR004	0402 (01005)	0.4±0.02	0.2±0.02	0.13±0.02	0.1±0.03	0.1 ±0.03
MCR006	0603 (0201)	0.6±0.03	0.3±0.03	0.23±0.03	0.1±0.05	0.15±0.05
MCR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	$0.25^{+0.05}_{-0.10}$
MCR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3 ±0.2
MCR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4 ±0.2
MCR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.5±0.25	0.5 ±0.25

●MCR004/006/01(无标记)
●MCR03(一部分有标记)



●MCR10/18



■品名构成说明

M C R 0 0 6 Y L P F L □ □ □ □

型号

阻值容差

D	±0.5%
F	±1%
J	±5%

J is also used for jumper

特殊品名代码

L	1Ω to 9.1Ω (MCR006/01/03 F Class only)
X*	±100ppm/°C

*MCR03 F Class only

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
D, F	:	4 digits
J	:	3 digits

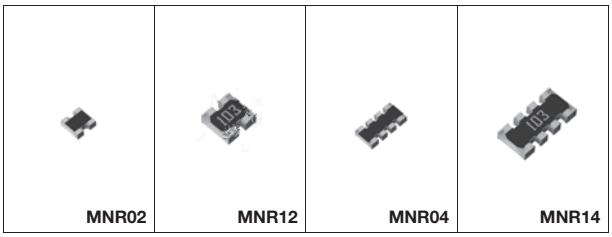
包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
MCR004	QLP	◎	◎	—	Paper tape (2mm Pitch)	ϕ180mm (7inch)	20,000
MCR006	YLP	◎	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	15,000
MCR01	MZP	◎	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MCR03	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR18	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

贴片排阻：MNR系列(0402尺寸×2～0603尺寸×4)

- 成本降低
  采用排阻减少安装次数，并可节省安装空间
- 焊脚检查方便
  凸型电极有助于对焊脚进行目测检查
  上述检查可以采用自动检测工具



MNR系列(0402尺寸×2～0603尺寸×4)

Part No.	Size Code mm (inch)	No. of Terminals	No. of Elements	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR02	1005 (0402)×2	4	2	0.063/Element	25	J (±5%)	±200	10Ω to 1MΩ (E24 series)	−55 to +155	YES
MNR04	1005 (0402)×4	8	4	0.063/Element	25	J (±5%)	+500/−250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 1MΩ (E24 series)		YES
MNR12	1608 (0603)×2	4	2	0.063/Element	50	J (±5%)	±200	10Ω to 1MΩ (E24 series)		YES
MNR14	1608 (0603)×4	8	4	0.063/Element	50	J (±5%)	±500 ±200	2.2Ω to 6.8Ω (E6 series) 10Ω to 1MΩ (E24 series)		YES

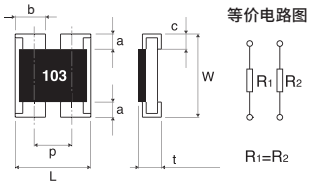
跳线类型

Part No.	Size Code mm (inch)	Rated Current	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR02	1005 (0402)×2	1A/Element	50mΩ Max	−55 to +155	YES
MNR04	1005 (0402)×4	1A/Element			YES
MNR12	1608 (0603)×2	1A/Element			YES
MNR14	1608 (0603)×4	1A/Element			YES

■尺寸 (单位 : mm)

●MNR02/MNR12 (MNR02无标记)

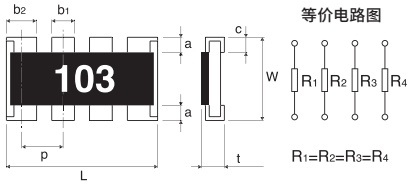
标记方法有所不同。



Part No.	L	W	t	a	b	c	p
MNR02	1.0±0.1	1.0±0.1	0.35±0.1	0.2±0.1	$0.33^{+0.1}_{-0.05}$	0.25±0.1	0.68
MNR12	1.6±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.6±0.15	0.25±0.15	0.8

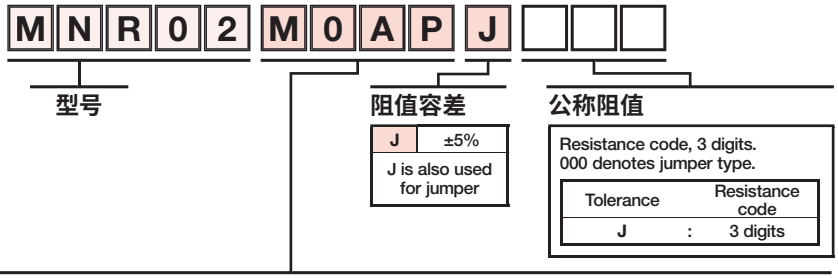
●MNR04/MNR14 (MNR04无标记)

标记方法有所不同。



Part No.	L	W	t	a	b_1	b_2	c	p
MNR04	2.0±0.1	1.0±0.1	0.35±0.1	0.2±0.1	0.3±0.1	0.4±0.1	0.25±0.1	0.5
MNR14	3.2±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.4±0.15	0.6±0.15	0.25±0.15	0.8

■品名构成说明



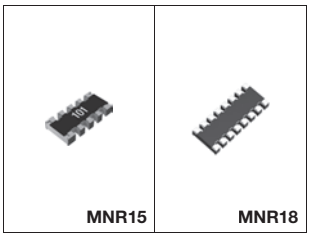
包装规格代码

Part No.	Code	Tolerance J (±5%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
MNR02	M0AP	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MNR04	M0AP	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MNR12	E0AP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MNR14	E0AP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

8个元件内置型贴片排阻：MNR系列(0603尺寸×5～0602尺寸×8)

- 8个元件内置于一个封装中，有助于节省空间、降低成本
- 采用凸型电极有助于对焊脚进行目测检查，上述检查可采用自动检测工具
- 适用于上拉电阻和阻尼电阻
- 无方向性，防止发生错误安装



MNR系列(0603尺寸×5～0602尺寸×8)										
Part No.	Size Code mm (inch)	No. of Terminals	No. of Elements	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR15	1608 (0603)×5	10	8	0.031/Element	12.5	J (±5%)	±200	56Ω to 100kΩ (E24 series)	−55 to +125	YES
MNR18	1605 (0602)×8	16	8	0.063/Element*	25	J (±5%)	±200	10Ω to 1MΩ (E24 series)		YES

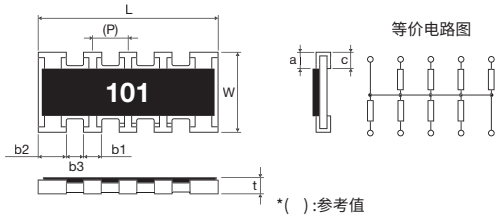
*但不得超过0.25W

跳线类型					
Part No.	Size Code mm (inch)	Rated Current	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR18	1605 (0602)×8	1A/Element*	50mΩ Max	−55 to +125	YES

*但不得超过4A

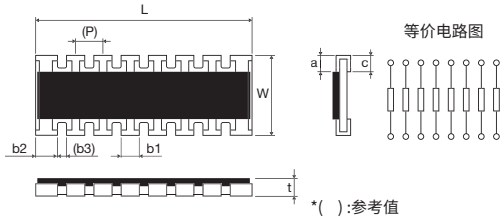
■尺寸 (单位 : mm)

●MNR15



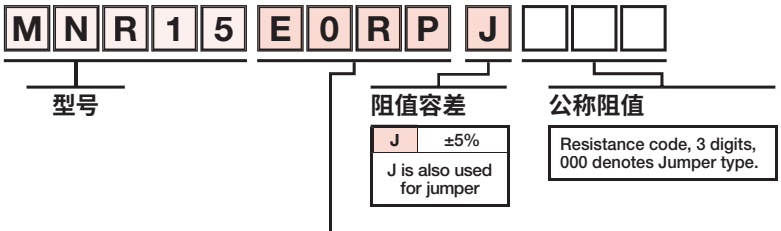
Part No.	L	W	t	a	b1	b2	b3	c	(P)
MNR15	3.2±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.32±0.15	0.48±0.15	0.32±0.15	0.3±0.2	(0.64)

●MNR18(无标记)



Part No.	L	W	t	a	b1	b2	(b3)	c	(P)
MNR18	3.8±0.1	1.6±0.1	0.45±0.1	0.3±0.2	0.3±0.1	0.3±0.1	(0.2)	0.3±0.2	(0.5)

■品名构成说明



包装规格代码

Part No.	Code	Tolerance J (±5%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
MNR15	E0RP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MNR18	E0AP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格 “ EIAJ ET-7200B”
◎: 标准产品

小型贴片电阻器(RASMID™系列)
超小型 贴片电阻器：SMR003(009005尺寸)

- 采用自有工艺技术，实现高精度
- 贴片尺寸精度从±20μm提高到±10μm
- 采用金电极，提高润湿性、可靠性



*该产品1个卷轴的基本订货数量为40,000个，
并且设有最低订货批次数。详情请垂询本公司。

SMR003 <009005尺寸>

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SMR003	03015 (009005)	0.02	10	F (±1%)	±200	10 to 1MΩ (E24, E96 series)	−55 to +125	—
				J (±5%)		10 to 1MΩ (E24 series)		

*E24：标准品/E96：订购生产品

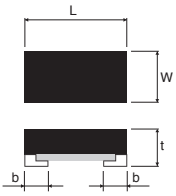
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
SMR003	03015 (009005)	0.5	50mΩ Max	−55 to +125	—

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SMR003	03015 (009005)	0.30±0.01	0.15±0.01	0.11±0.01	—	0.07±0.01

●SMR003



■品名构成说明

S M R 0 0 3 R X J □ □ □ □

型号

阻值容差

F	±1%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
SMR003	RX	◎	◎	Embossed tape (1mm Pitch)	ϕ180mm (7inch)	40,000*

卷轴(ϕ180mm)：遵循JEITA规格 " EIAJ ET-7200B"
◎: 标准产品
*设有最低订货批次数。详情请垂询本公司。
RASMID™是ROHM Co., Ltd.的商标或注册商标。
RASMID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型器件系列。

标准公称阻值等

E3	10				22				47			
E6	10		15		22		33		47		68	
E12	10	12	15	18	22	27	33	39	47	56	68	82
E24	10	11	12	13	15	16	18	20	22	24	27	30
	33	36	39	43	47	51	56	62	68	75	82	91
E96	100	102	105	107	110	113	115	118	121	124	127	130
	133	137	140	143	147	150	154	158	162	165	169	174
	178	182	187	191	196	200	205	210	215	221	226	232
	237	243	249	255	261	267	274	280	287	294	301	309
	316	324	332	340	348	357	365	374	383	392	402	412
	422	432	442	453	464	475	487	499	511	523	536	549
	562	576	590	604	619	634	649	665	681	698	715	732
	750	768	787	806	825	845	866	887	909	931	953	976

■公称阻值

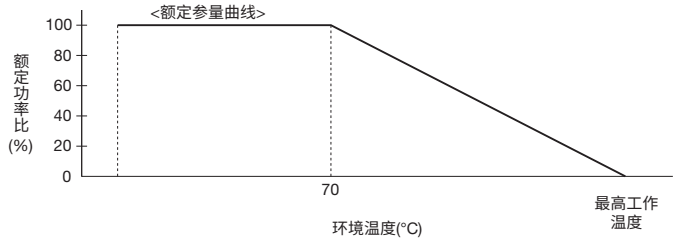
属同一公称范围的系列电阻器如上表所示。
公称阻值由右表所示公比决定。
(关于阻值容差)
如果阻值容差为±5%，公称阻值用3位数表示；若电阻公差为±0.5%、±1%、±2%，公称电阻用4位数表示。其中前2位或前3位数表示有效数字，后一位表示10的幂数。此外字母R或L表示小数点。

Series	Common ratio	Remarks
E6	$\sqrt[6]{10}\approx1.46$	Rounded off to a 2-digit figure.
E12	$\sqrt[12]{10}\approx1.21$	
E24	$\sqrt[24]{10}\approx1.10$	
E96	$\sqrt[96]{10}\approx1.02$	Rounded off to a 3-digit figure.

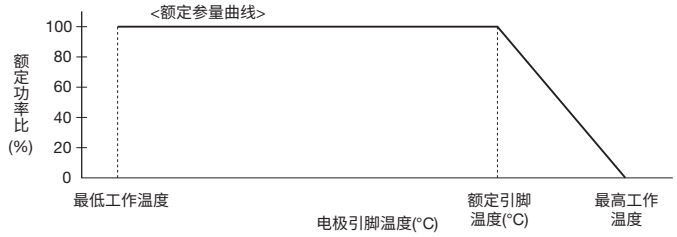
例1　22Ω→22×10⁰Ω→22 0 (最后一位数字 "0" 表示10的0次方)
例2　47kΩ→47×10³Ω→47 3 (最后一位数字 "3" 表示10的3次方)
例3　1.2MΩ→12×10⁵Ω→12 5 (最后一位数字 "5" 表示10的5次方)
例4　2.7Ω→2R7 (R表示小数点/对象为小于10Ω的低阻值)
例5　1130Ω→113×10¹Ω→113 1 (最后一位数字 "1" 表示10的1次方/阻值容差1%的F级产品)
例6　0.10Ω→R10
例7　1MΩ→1L0

■关于额定功率的补充

・若环境温度超过额定环境温度，则根据额定参量曲线减低负载功率。



・额定环境温度规定
施加电压时的引脚温度超过额定引脚温度时，请根据额定参量曲线降低负载功率。



■有关电阻器使用的基本事项，请参见日本电子资讯技术产业学会 (JEITA) 发行的技术报告 JEITA RCR-2121A[电子产品中的固定电阻使用指南 (电子产品中的固定电阻安全使用指南)]

■补充注释

*1 若电阻的负载为瞬载(过大负载，如脉冲)，请务必将产品安装于电路板进行性能的评估及确认。若电压持续超过额定电压，则会降低电阻器的性能和可靠性。
请勿将大于电阻器的额定电压加于任何罗姆电阻上。

*2 额定电压(V)=$\sqrt{\text{额定功率 (W)}\times\text{公称阻值 (Ω)}}$ 的值或者电路最高电压 (以较小者为准) 。

LED 贴片LED P.247 插件LED P.264

贴片LED

罗姆的贴片LED用于自动表面焊接。提供多种封装尺寸(从1.0×0.6mm)。
可用于各种用途。

红色(V, U)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2500	2500 to 3200
Mini-mold	1006	0.2	1																		
			20																		
	1608	0.36	20																		
		0.55	2																		
			20																		
	20125	0.8	20																		
Reflector	20125	0.8	20																		
	3020	1.3	20																		
			10																		
			20																		
PLCC2	3528	1.9	50																		
			20																		
Side View (mold)	16115	0.55	20																		
Reverse Mount	34125	1.1	10																		
Lens	1608	1.24	20																		
	3216	1.85																			

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (cd) / I_F (mA)	4.5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 12	12 to 14	14 to 16	16 to 18	18 to 20	20 to 22	22 to 25
Lens	2924	3.1	20												

橙色(D)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1006	0.2	1																	
			20																	
	1608	0.36	20																	
		0.55	2																	
			20																	
	20125	0.8	20																	
Reflector	20125	0.8	20																	
	3020	1.3	20																	
			10																	
			20																	
PLCC2	3528	1.9	50																	
			20																	
Side View (mold)	16115	0.55	20																	
Reverse Mount	34125	1.1	10																	
Lens	1608	1.24	20																	
	3216	1.85																		

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (cd) / I_F (mA)	6 to 7	7 to 8	8 to 9	9 to 10	10 to 12	12 to 14	14 to 16	16 to 18	18 to 20	20 to 22	22 to 24	24 to 27	27 to 30	30 to 33	33 to 36	36 to 40	40 to 45	45 to 56
Lens	2924	3.1	20																		

*另备有半规格产品。
*1 规格书所示光强包含±10%误差。　注：等级标记请参考规格书。

贴片LED

黄色(Y, W)光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_F (mA) \ Luminous Intensity (mcd)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1006	0.2	1				SML-P11YT (R)													
			20									SML-P12YT (R)								
												SML-P12Y3T (R)								
										SML-P12Y2T (R)										
											SML-P12WT (R)									
	1608	0.36	20								SML-E12Y8W									
		0.55	2		SML-D11YW															
						SML-D12W8W (A)*														
								CSL1901YW												
			20												SML-D15YW					
														SML-D14YW (A)*						
														SML-D14WW (A)*						
													SML-D13WW (A)*							
													SML-D13Y8W							
												SML-D13Y2W								
										SML-D12Y3W										
													SML-D12Y1W							
											SML-D12Y8W									
	20125	0.8	20									SML-H12Y8T								
Reflector	20125	0.8	20											SML-M13YT						
	3020	1.3	20			SML-010YT														
											SML-011YT									
			10						SML-011YT (A)*											
			20												SML-012WT (A)*					
												SML-012YT (A)*								
												SML-012Y8T								
											SML-012YT									
														SML-013YT						
PLCC2	3528	1.9	50													SML-Z14Y4T*				
			20												SML-Z14YT (A)*					
Side View (mold)	16115	0.55	20								SML-A12Y8T									
											SML-A12WT (J)*1									
															SML-A15YT					
Reverse Mount	34125	1.1	10						SML-811WT (A)*											
Lens	1608	1.24	20												CSL0901YT					
															CSL0901WT					
																CSL0902YT				
																	CSL0903YT			
	3216	1.85																SML-S13YT		

黄绿色(M)、绿色(P、F)光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_F (mA) \ Luminous Intensity (mcd)	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1800	1800 to 2500
Mini-mold	1006	0.2	1		SML-P11MT (R)																
			20							SML-P12M2T (R)											
	1608									SML-P12MT (R)											
									SML-P13FT (R)												
								SML-P13PT (R)													
							SML-E12P8W														
		0.36	20							SML-E12M8W											
		0.55	2		CSL1901MW																
			20											SML-D15MW							
													SML-D14MW (A)*								
												SML-D13MW (A)*									
											SML-D13FW										
											SML-D13M8W										
								SML-D12P8W													
											SML-D12M1W										
										SML-D12M8W											
											SML-D12FW										
	20125	0.8	20							SML-H12M8T											
								SML-H12P8T													
Reflector	20125	0.8	20									SML-M13MT									
	3020	1.3	20						SML-M13PT												
										SML-010MT											
								SML-010PT													
										SML-012PT (A)*											
												SML-012M8T									
									SML-012P8T												
PLCC2	3528	1.9	50									SML-Z14P4T*									
															SML-Z14M4T*						
													SML-Z14F4T*								
			20										SML-Z14MT (A)*								
										SML-Z14PT (A)*											
												SML-Z14FT (A)*									
Side View (mold)	16115	0.55	20								SML-A12MT (J)*1										
										SML-A12M8T											
								SML-A12P8T													
Reverse Mount	34125	1.1	20								SML-812MT										
Lens	1608	1.24	20								CSL0901PT				CSL0901MT						
															CSL0902MT						
	3216	1.85	20													SML-S13MT					
														SML-S13PT							

*另备有半规格产品。
*1 规格书所示光强包含±10%误差。　注：等级标记请参考规格书。

绿色(E)/蓝绿色(E2、E3)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	9.0 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 2200	2200 to 3600	3600 to 5600
Mini-mold	1006	0.2	5					SMLP14ECNW									
	1608	0.36	5					SMLEN3EC8T									
		0.55						SMLD12EN1W									
								SMLD12E2N1W									
								SMLD12E3N1W									
		1.06							CSL1001ET								
Reflector	20125	0.8	5					SMLMN2ECT (C)									
	3020	1.3	20							SML012ENT							
PLCC2	3528	1.9	20											SMLZ24E2N3T			
														SMLZN4EGT (A)*			
Side View (mold)	16115	0.55	5					SMLA12ENT									
Lens	3216	1.85	20													SMLS14ENT	
	1608	1.24									CSL0901ET						
													CSL0902ET				

蓝色(B)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	0.9 to 1.4	1.4 to 2.2	2.2 to 3.6	3.6 to 5.6	5.6 to 9.0	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400
Mini-mold	1006	0.2	5						SMLP14BCNW										
	1608	0.36	5							SMLEN3BC8T									
		0.55	5							SMLD12BN1W									
		1.06	1				CSL1001BT												
Reflector	20125	0.8	5							SMLMN2BCT (C)									
	3020	1.3	20											SML013BNT					
PLCC2	3528	1.9	20												SMLZ24BN3T				
														SMLZN4BGT (A)*					
Side View (mold)	16115	0.55	5						SMLA12BN8T										
Reverse Mount	34125	1.1	20											SML813BNT					
Lens	1608	1.24	5									CSL0901BT							
			20													CSL0902BT			
	3216	1.85	20														SMLS14BNT		

白色(WB)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200	2200 to 2800	2800 to 3600	3600 to 7000	7000 to 8500
Mini-mold	1006	0.2	5						SMLP14WBCNIW												
	1608	0.36	5					SMLEN3WBC8W													
		0.55						SMLD12WBN1W													
Side View (Reflector)	16115	0.55	5				SMLA12WBN7W														
	2812	0.8	20													CSL0416WBCW					
Reverse Mount	34125	1.1	2	SML811WBCN1W																	
Reflector	1608	0.55	5						CSL1101WBxW												
			20										CSL1102WBxW								
														CSL1103WBxW							
																CSL1104WBxW					
	20125	0.8	5					SMLMN2WB1CW (C)													
PLCC2	3528	1.9	20														SMLZN4WBGUW (A)*				

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (cd) / I_F (mA)	2.2 to 2.8	2.8 to 3.3	3.3 to 4.0	4.0 to 4.8	4.8 to 5.8	5.8 to 7.0	7.0 to 8.5	8.5 to 10.2	10.2 to 12.3	12.3 to 14.8	14.8 to 19	19 to 21.8	21.8 to 24.5	24.5 to 27.2	27.2 to 29.3	29.3 to 32.6	32.6 to 35.4
Reflector	4520	0.6	90					SMLK18WBNCW													

*另备有半规格产品。
*1 规格书所示光强包含±10%误差。　注：等级标记请参考规格书。

贴片LED

双色 光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_F (mA)	Luminous Intensity (mcd) / Emitting Color	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160
Mini-mold	1010	0.2	20	Red									
				Yellow Green					SML-P24MUW (R)				
	1315	0.6	5	Red									
				Blue				SML522BUNW					
			20	Red									
				Yellow Green					SML-522MUW				
				Red									
				Yellow Green						SML-522MU8W			
				Orange									
				Yellow Green							SML-522MD8W		
				Yellow Green									
				Yellow								SML-522MY8W	
	1608	0.55	5	Yellow Green									
				Red				SML-D22MUW					
				Yellow									
				Red					SML-D22YVW				
Reflector	3025	1.3	20	Orange									
				Yellow Green				SML-020MDT					
				Red									
				Yellow Green									
				Yellow Green									
				Yellow					SML-020MYT				
Reverse Mount	34125	1.1	20	Yellow Green									
				Red						SML-822MV8W			
				Yellow Green									
				Red								SML-825MVW	

三色 光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_F (mA)	Luminous Intensity (mcd) / Emitting Color	5.6 to 9.0	9.0 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 1800
Mini-mold	1010	0.2	5	Red													
				Green						SMLP34RGBN1W							
				Blue													
	1510	0.2	5	Red													
				Green						SMLP36RGBNW							
				Blue													
Reflector	1816	0.5	20	Red													
				Green								MSL0402RGBU					
				Blue													
	3528	0.6		Red													
				Green											SMLVN6RGB1W		
				Blue													
				Red													
				Green											SMLVN6RGB1U		
				Blue													
				Red													
				Green											SMLVN6RGB7W		
				Blue													
Side View (Reflector)	29135	1.0	20	Red													
				Green											MSL0601RGBU		
				Blue													
	6922	2.15		Red													
				Green											MSL0104RGBW		
				Blue													
				Red													
				Green											MSL0104RGBU		
				Blue													

*1 规格书所示光强包含±10%误差。　注：等级标记请参考规格书。

贴片LED(车载适用品)

红色(V, U)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2500	2500 to 3120
Mini-mold	1608	0.55	20							SML-D15VW (C)							
								SML-D13VW (C)									
						SML-D12V8W (C)											
										SML-D15UW (C)							
											SML-D15U2W (C)						
									SML-D13UW (C)								
							SML-D12U8W (C)										
	20125	0.8	20			SML-H12V8T (C)											
							SML-H12U8T (C)										
PLCC	3528	1.9	20						SML-Z14VT (C)								
										SML-Z14UT (C)							
Reverse Mount	34125	1.1	10		SML-811VT (C)												
					SML-811UT (C)												
Lens	1608	1.24	20							CSL0901VT (C)							
											CSL0901UT (C)						
											CSL0902VT (C)						
												CSL0902UT (C)					
													CSL0903VT (C)				
														CSL0903UT (C)			

橙色(D)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1608	0.55	20								SML-D15DW (C)				
								SML-D13DW (C)							
							SML-D12D8W (C)								
	20125	0.8	20				SML-H12D8T (C)								
PLCC	3528	1.9	20							SML-Z14DT (C)					
Lens	1608	1.24	20								CSL0901DT (C)				
												CSL0902DT (C)			
														CSL0903DT (C)	
Reverse Mount	34125	1.1	10		SML-811DT (C)										

黄色(Y, W)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1608	0.55	2		SML-D12W8W (C)													
			20											SML-D15YW (C)				
											SML-D13WW (C)							
									SML-D12Y8W (C)									
	20125	0.8	20							SML-H12Y8T (C)								
PLCC	3528	1.9	20											SML-Z14YT (C)				
Reverse Mount	34125	1.1	10					SML-811WT (C)										
Lens	1608	1.24	20											CSL0901YT (C)				
															CSL0901WT (C)			
															CSL0902YT (C)			
																CSL0903YT (C)		

黄绿色(M)、绿色(P、F)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000
Mini-mold	1608	0.55	20									SML-D15MW (C)					
										SML-D13MW (C)							
					SML-D12P8W (C)												
									SML-D13FW (C)								
									SML-D12M8W (C)								
	20125	0.8	20						SML-H12M8T (C)								
					SML-H12P8T (C)												
PLCC	3528	1.9	20									SML-Z14MT (C)					
										SML-Z14FT (C)							
									SML-Z14PT (C)								
Lens	1608	1.24	20										CSL0901MT (C)				
									CSL0901PT (C)								
														CSL0902MT (C)			

贴片LED(车载适用品)

绿色(E)/蓝绿色(E2、E3)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 2200	2200 to 3600	3600 to 5600
Mini-mold	1608	1.06	5			CSL1001ET (C)								
Reflector	20125	0.8	5		SMLMN2ECT (C)									
PLCC	3528	1.9	20								SMLZ24E2N3T (C)			
Lens	1608	1.24	5					CSL0901ET (C)						
			20								CSL0902ET (C)			

蓝色(B)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	2.2 to 3.6	3.6 to 5.6	5.6 to 9.0	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900
Mini-mold	1608	0.55	5					SMLD12BN1W (C)								
		1.06	1		CSL1001BT (C)											
Reflector	20125	0.8	5					SMLMN2BCT (C)								
PLCC	3528	1.9	20											SMLZ24BN3T (C)		
Lens	1608	1.24	5							CSL0901BT (C)						
			20											CSL0902BT (C)		

白色(WB)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) / I_F (mA)	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1100	1000 to 1400	1400 to 1800
Mini-mold	1608	0.55	5		SMLD12WBN1W (C)								
Reflector	1608	0.55	5			CSL1101WBAW (C)							
						CSL1101WBBW (C)							
						CSL1101WBCW (C)							
						CSL1101WBDW (C)							
			20								CSL1102WBAW (C)		
											CSL1102WBBW (C)		
											CSL1102WBCW (C)		
											CSL1102WBDW (C)		
	20125	0.8	5		SMLMN2WB1CW (C)								

三色(RGB)光强一览表

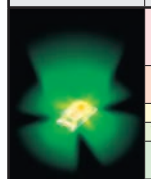
Package Structure	Package Size (mm)	Height (mm)	I_F (mA)	Luminous Intensity (mcd) / Emitting Color	220 to 280	280 to 360	360 to 450	450 to 560	560 to 710	710 to 900	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200
Reflector	3528	0.6	20	Red										
				Green						SMLVN6RGBFU1 (C)				
				Blue										

贴片LED

PICOLED™ 模具型0402（1006M）

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)	Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 PICOLED™-eco 1.0×0.6 (t=0.2)	Red	SML-P11VT (R)	626	1	2	4	6	1	1.8	1	10	5	50	20	100*2	5	−40 to +85	−40 to +100
		SML-P11UT (R)	621	1	1	3	6	1	1.8	1	10	5	50	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-P11DT (R)	605	1	4	7	16	1	1.9	1	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-P11YT (R)	586	1	4	8	16	1	1.9	1	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-P11MT (R)	569	1	1	2	4	1	1.9	1	10	5	54	20	100*2	5	−40 to +85	−40 to +100
 PICOLED™ 1.0×0.6 (t=0.2)	Red	SML-P12VT (R)	630	20	25	60	100	20	2.0	20	10	5	50	20	100*2	5	−40 to +85	−40 to +100
		SML-P12UT (R)	620	20	40	85	160	20	2.0	20	10	5	50	20	100*2	5	−40 to +85	−40 to +100
		SML-P12U2T (R)	615	20	25	70	160	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-P12DT (R)	605	20	63	100	250	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-P12Y3T (R)	596	20	40	90	250	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P12YT (R)	590	20	40	100	160	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P12WT (R)	585	20	25	70	160	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P12Y2T (R)	580	20	16	50	100	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-P12M2T (R)	576	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-P12MT (R)	572	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-P13FT (R)	566	20	6	18	40	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P13PT (R)	560	20	4	10	16	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		New SMLP14ECNW	527	5	56	110	220	5	3.0	5	100	5	34	10	50*2	5	−40 to +85	−40 to +100
	Blue	New SMLP14BCNW	470	5	9	25	56	5	2.9	5	100	5	33	10	50*2	5	−40 to +85	−40 to +100
	White	SMLP14WBCN1W	(x, y) (0.30, 0.30)	5	90	180	360	5	2.9	5	100	5	33	10	50*2	5	−40 to +85	−40 to +100

模具型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)	Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 1.6×0.8 (t=0.36)	Red	SML-E12V8W	630	20	16	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-E12UW	624	20	36	85	280	20	2.0	20	10	5	62	25	60*1	5	−30 to +85	−40 to +85
		SML-E12U8W	620	20	25	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-E12DW	607	20	56	150	450	20	2.0	20	10	5	62	25	60*1	5	−30 to +85	−40 to +85
		SML-E12D8W	605	20	40	100	250	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-E12Y8W	590	20	25	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-E12M8W	572	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-E12P8W	560	20	3	6	16	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		New SMLEN3EC8T	527	5	56	120	360	5	3.0	5	10	5	68	20	100*2	5	−40 to +85	−40 to +100
	Blue	SMLEN3BC8T	470	5	14	40	90	5	2.9	5	10	5	66	20	100*2	5	−40 to +85	−40 to +100
	White	SMLEN3WBC8W	(x, y) (0.30, 0.30)	5	56	120	220	5	2.9	5	10	5	33	10	50*2	5	−40 to +85	−40 to +100
 1.6×0.8 (t=0.55)	Red	SML-D12L8W	635	20	10	16	40	20	2.0	20	10	5	50	20	100*5	5	−40 to +85	−40 to +100
		SML-D14VW (A)	630	20	71	100	180	20	2.0	20	10	5	72	30	100*2	5	−40 to +100	−40 to +100
		Single rank SML-D15VW				90	112						84	35				
		SML-D13VW (A)			36	55	90						72	30				
		SML-D12V8W			16	40	100		2.2				54	20			−40 to +85	
		SML-D12V1W			25		63											
		New CSL1901VW		2	1.6	4.8	6.3	2	1.8	2			44					
	Red	Single rank SML-D15UW	620	20	90	112	140	20	2.0	20	10	5	84	35	100*2	5	−40 to +100	−40 to +100
		SML-D13UW (A)			56	85							72	30				
		SML-D13U8W			40	70	160		2.1				52	20			−40 to +85	
		SML-D12U8W			25	63			2.2				54					
		SML-D12U1W			40		100											
		New CSL1901UW		2	2.5	6	10	2	1.8	2			44					
		SML-D14U2W (A)	615	20	90	160	224	20	2.0	20	10	5	72	30	100*2	5	−40 to +100	−40 to +100
		Single rank SML-D15U2W			112	140	180						84	35				
	Orange	Single rank SML-D15DW	605	20	180	224	280	20	2.0	20	10	5	84	35	100*2	5	−40 to +100	−40 to +100
		SML-D14DW (A)			112	200							72	30				
		SML-D13DW (A)			71	120	180											
		SML-D12D8W			40	100	250		2.2				54	20			−40 to +85	
		SML-D12D1W			63		160											
		New CSL1901DW		2	6.3	9.4	25	2	1.8	2			44					
	Yellow	Single rank SML-D15YW	590	20	180	224	280	20	2.1	20	10	5	87	35	100*2	5	−40 to +100	−40 to +100
		SML-D14YW (A)			112	200							75	30				
		SML-D12Y1W			63	100	160		2.2				54	20			−40 to +85	
		SML-D13Y8W																
		SML-D12Y8W			25	63												
		New CSL1901YW		2	6.3	9.4	25	2	1.8	2			44					
		SML-D12W8W (A)	588	2	5	7	9	2	2.0	2	10	12	52	20	100*2	12	−40 to +100	−40 to +100
		SML-D11YW			2	4	6		1.9			5	67	25		5	−40 to +85	
		SML-D14WW (A)	587	20	112	180	280	20	2.1	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-D13WW (A)			71	110	180											
		SML-D13Y2W	581	20	40	80	160	20	2.1	20	10	5	78	30	100*2	5	−40 to +85	−40 to +100
		SML-D12Y3W			16	40	100		2.2				54	20				
	Yellow Green	SML-D12M1W	572	20	16	30	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-D13M8W																
		SML-D12M8W			10	25												
		Single rank SML-D15MW	571	20	56	71	90	20	2.1	20	10	5	87	35	100*2	5	−40 to +100	−40 to +100
		SML-D14MW (A)			36	60							75	30				
		SML-D13MW (A)			28	45	71											
		New CSL1901MW	570	2	1	3	4	2	1.8	2	10	5	44	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-D13FW	565	20	18	22	36	20	2.1	20	10	5	81	30	100*2	5	−40 to +85	−40 to +100
		SML-D12FW			14	18	28		2.2				67	25				
		SML-D12P8W	560	20	3	6	16	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SMLD12EN1W	527	5	56	140	220	5	3.0	5	10	5	70	20	100*2	5	−40 to +100	−40 to +100
	Blue Green	SMLD12E2N1W	505	5	56	120	140	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
		SMLD12E3N1W	496	5	56	85	140	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
	Blue	SMLD12BN1W	470	5	14	40	56	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
	White	SMLD12WBN1W	(x, y) (0.295, 0.280)	5	56	120	220	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100

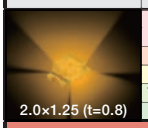
*1 Duty≤1/5, 200Hz *2 Duty≤1/10, 1kHz *3 Duty≤1/20, 1ms *4 Duty≤1/5, 1kHz *5 Duty≤1/10, pulse width 10ms Max
*关于白色，用色度坐标(x, y)标记。
注1：PICOLED™是ROHM.Co.,Ltd.的商标或注册商标。
注2：本产品请指定单级使用。

贴片LED

模具型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 1.6×0.8 (t=1.06)	Green	CSL1001ET (C)	527	5	90	140	224	5	3.0	5	10	5	35	10	50*2	5	−40 to +100	−40 to +100
	Blue	CSL1001BT (C)	470	1	4	6	9	1	2.8	1	10	5	33	10	50*2	5	−40 to +100	−40 to +100

模具型0805(20125M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 2.0×1.25 (t=0.8)	Red	SML-H12V8T	630	20	16	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-H12U8T	620	20	25	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-H12D8T	605	20	40	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-H12Y8T	590	20	40	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-H12M8T	572	20	10	25	40	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-H12P8T	560	20	3	4	10	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100

折射型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 1.6×0.8 (t=0.55)	White	New CSL1101WBAW	(x, y) (0.282, 0.249)	5	90	140	220	5	2.9	5	10	5	68	20	100*2	12	−40 to +110	−40 to +110
		New CSL1101WBBW	(x, y) (0.261, 0.261)	5	90	140	220	5	2.9	5	10	5	68	20	100*2	12	−40 to +110	−40 to +110
		New CSL1101WBCW	(x, y) (0.303, 0.294)	5	90	140	220	5	2.9	5	10	5	68	20	100*2	12	−40 to +110	−40 to +110
		New CSL1101WBDW	(x, y) (0.284, 0.303)	5	90	140	220	5	2.9	5	10	5	68	20	100*2	12	−40 to +110	−40 to +110
		New CSL1102WBAW	(x, y) (0.282, 0.249)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	12	−40 to +110	−40 to +110
		New CSL1102WBBW	(x, y) (0.261, 0.261)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	12	−40 to +110	−40 to +110
		New CSL1102WBCW	(x, y) (0.303, 0.294)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	12	−40 to +110	−40 to +110
		New CSL1102WBDW	(x, y) (0.284, 0.303)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	12	−40 to +110	−40 to +110
		New CSL1103WBAW	(x, y) (0.282, 0.249)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		New CSL1103WBBW	(x, y) (0.261, 0.261)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		New CSL1103WBCW	(x, y) (0.303, 0.294)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		New CSL1103WBDW	(x, y) (0.284, 0.303)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		New CSL1104WBAW	(x, y) (0.282, 0.249)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110
		New CSL1104WBBW	(x, y) (0.261, 0.261)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110
		New CSL1104WBCW	(x, y) (0.303, 0.294)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110
		New CSL1104WBDW	(x, y) (0.284, 0.303)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110

折射型0805(20125M)

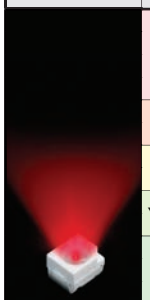
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 2.0×1.25 (t=0.8)	Red	SML-M13VT	630	20	40	75	100	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
		SML-M13UT	620	20	63	120	160	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Orange	SML-M13DT	605	20	100	160	250	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-M13YT	590	20	100	160	250	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-M13MT	572	20	25	45	100	20	2.2	20	10	5	81	30	100*2	5	−40 to +85	−40 to +100
	Green	SML-M13PT	560	20	6	16	25	20	2.2	20	10	5	81	30	100*2	5	−40 to +85	−40 to +100
		SMLMN2ECT (C)	527	5	56	140	360	5	3.0	5	10	12	70	20	100*2	12	−40 to +100	−40 to +100
	Blue	SMLMN2BCT (C)	470	5	14	36	90	5	2.9	5	10	12	68	20	100*2	12	−40 to +100	−40 to +100
2.0×1.25 (t=0.8)	White	SMLMN2WB1CW (C)	(x, y) (0.30, 0.28)	5	56	140	220	5	2.9	5	10	12	68	20	100*2	12	−40 to +100	−40 to +100

折射型(3020M)

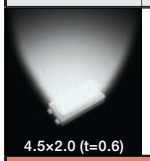
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 3.0×2.0 (t=1.3)	Red	SML-010VT	650*6	20	2	6	18	20	2.0	20	10	4	70	25	60*1	4	−30 to +85	−40 to +85
		SML-011VT (A)	639*6	10	14	28	56	10	2.0	10	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-011UT	630*6	20	22	63	180	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-012VT (A)	630	20	36	71	140	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-012V8T			25	63	160		2.2				54	20			−40 to +85	
		SML-013UT	624	20	90	220	710	20	2.0	20	10	5	75	30	100*2	5	−30 to +85	−40 to +100
		SML-012UT			36	100	280										−40 to +100	
		SML-012U8T	620	20	40	100	250	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-011DT	611*6	20	22	63	180	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-011DT (A)		10		45	90	10		10								
		SML-010DT	610*6	20	4	10	28	20	2.0	20	100	4	70	25	60*1	4	−30 to +85	−40 to +85
		SML-012DT	606	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-012D8T	605	20	63	160	400	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-012DT (A)			71	140	280											
	Yellow	SML-011YT	590*6	20	22	63	180	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-011YT (A)		10	11	22	45	10		10								
		SML-012WT (A)	590	20	140	280	450	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-013YT			100	250	630		2.1								−40 to +85	
		SML-012YT			36	100	280		2.0								−40 to +100	
		SML-012Y8T			40		250		2.2				54	20			−40 to +85	
		SML-012YT (A)	587	20	56	112	224	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-010YT	585*6	20	2	6	18	20	2.1	20	100	4	70	25	60*1	4	−30 to +85	−40 to +85
	Yellow Green	SML-012M8T	572	20	16	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-010MT	570*6	20	6	25	45	20	2.2	20	100	4	70	25	60*1	4	−30 to +85	−40 to +85
	Green	SML-012PT (A)	560	20	9	18	36	20	2.1	20	10	5	62	25	60*2	5	−40 to +100	−40 to +100
		SML-012P8T			3		25		2.2				54	20	100*2		−40 to +85	
		SML-010PT	555*6	20	2	6	18	20	2.2	20	100	4	70	25	60*1	4	−30 to +85	−40 to +85
		New SML012ENT	525	20	140	360	900	20	3.3	20	100	5	84	20	100*2	5	−30 to +85	−40 to +100
	Blue	New SML013BNT	470	20	90	250	560	20	3.2	20	100	5	78	20	100*2	5	−30 to +85	−40 to +100

*1 Duty≤1/5，200Hz *2 Duty≤1/10，1kHz *3 Duty≤1/20，1ms *4 Duty≤1/5，1kHz *5 Duty≤1/10，pulse width 10ms Max *6 峰值波长
*关于白色，用色度坐标(x，y)标记。
注：零件号末尾处的“C”表示车载级产品。详情请联系销售代表。

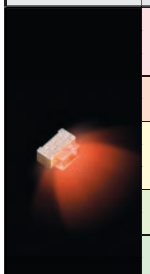
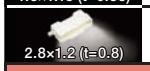
折射型PLCC(3528M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)	Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 PLCC 3.5×2.8 (t=1.9)	Red	SML-Z14V4T	630	50	140	280	560	50	2.0	50	10	12	189	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14VT (A)		20	56	112	180	20	1.9	20			168					
		SML-Z14U4T	620	50	280	560	1,120	50	2.0	50	10	12	189	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14UT (A)		20	112	224	355	20	1.9	20			168					
	Orange	SML-Z14D4T	605	50	355	710	1,400	50	2.0	50	10	12	189	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14DT (A)		20	140	280	450	20	1.9	20			168					
	Yellow	SML-Z14Y4T	590	50	355	710	1,400	50	2.1	50	10	12	189	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14YT (A)	589	20	140	280	450	20	2.0	20	10	12	175	70	200*2	12	−40 to 100	−40 to 100
	Yellow Green	SML-Z14M4T	572	50	112	224	450	50	2.1	50	10	12	189	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14MT (A)	571	20	45	90	140	20	2.0	20	10	12	175	70	200*2	12	−40 to 100	−40 to 100
	Green	SML-Z14F4T	565	50	56	120	180	50	2.1	50	10	12	189	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14FT (A)	564	20	22	45	71	20	2.0	20	10	12	175	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14P4T	561	50	22	56	90	50	2.1	50	10	12	189	70	200*2	12	−40 to 100	−40 to 100
		SML-Z14PT (A)	560	20	11	22	36	20	2.0	20	10	12	175	70	200*2	12	−40 to 100	−40 to 100
		New SMLZN4EGT (A)	528	20	900	1,500	2,200	20	3.4	20	10	5	120	30	100*2	5	−40 to 100	−40 to 100
	Blue Green	SMLZ24E2N3T (C)	505	20	900	1,140	1,800	20	3.2	20	—	—	152	40	100*2	—	−40 to 100	−40 to 100
	Blue	SMLZ24BN3T (C)	470	20	220	300	450	20	3.3	20	—	—	114	30	100*2	0.9	−40 to 100	−40 to 100
		SMLZN4BGT (A)			140												−40 to 85	
	White	SMLZN4WBGUW (A)	(x, y) (0.30, 0.28)	20	1,800	2,400	3,600	20	3.3	20	—	—	114	30	100*2	0.9	−40 to 85	−40 to 100

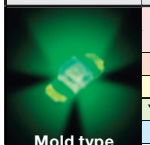
折射型(4520M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)											Absolute Maximum Ratings (T_a=25°C)					
			Chromaticity Coordinates*	Luminous Intensity I_V				Luminous Flux ϕ_V		Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			(x, y)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (lm)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 4.5×2.0 (t=0.6)	White	New SMLK18WBNCW	(0.30, 0.28)	90	4,800	5,900	8,500	90	21	90	3.9	90	10	5	675	150	230*5	5	−40 to +100	−40 to +100

侧视型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)	Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 1.6×1.15 (t=0.55)	Red	SML-A12V8T	630	20	16	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-A12UT (J)	624	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
		SML-A12U8T	620	20	25	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-A12DT (J)	606	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
		SML-A12D8T	605	20	40	100	250	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-A12WT (J)	590	20	36	63	180	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
		SML-A12Y8T			25		160		2.2				54	20				
		SML-A15YT			180	—	280		2.1				87	35			−40 to +100	
	Yellow Green	SML-A12M8T	572	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-A12MT (J)	570	20	14	40	110	20	2.1	20	100	5	65	25	100*2	5	−30 to +85	−40 to +85
	Green	SML-A12P8T	560	20	3	6	16	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		New SMLA12ENT	527	5	56	140	220	5	3.0	5	100	5	68	20	100*2	5	−40 to +85	−40 to +100
	Blue	New SMLA12BN8T	470	5	9	36	56	5	2.9	5	10	5	66	20	100*2	5	−40 to +85	−40 to +100
	White	New SMLA12WBN7W	(x, y) (0.30, 0.30)	5	22	56	140	5	2.9	5	10	5	33	10	50*2	5	−40 to +85	−40 to +100
 2.8×1.2 (t=0.8)	White	New CSL0416WBCW	(x, y) (0.30, 0.28)	20	1,400	2,200	3,600	20	3.2	20	50	5	117	30	100*2	5	−40 to +85	−40 to +100

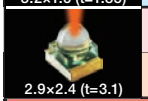
可背面贴装型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)	Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 Mold type 3.4×1.25 (t=1.1)	Red	SML-811VT (A)	630	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100
		SML-811UT (A)	620	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100
	Orange	SML-811DT (A)	605	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-811WT (A)	590	10	14	28	56	10	2.0	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-812MT	571	20	14	40	110	20	2.1	20	100	4	65	25	60*1	4	−30 to +85	−40 to +85
	Blue	New SML813BNT	470	20	90	185	360	20	3.2	20	100	5	76	20	100*2	5	−40 to +85	−40 to +85
	White	New SML811WBCN1W	(x, y) (0.272, 0.279)	2	9	22	45	2	2.8	2	10	5	35	10	50*2	5	−40 to +85	−40 to +100
 2 Color type 3.4×1.25 (t=1.1)	Yellow Green	SML-822MV8W	572	20	16	25	40	20	2.2	20	100	5	54	20	100*2	5	−40 to +85	−40 to +100
	Red		630	20	16	30	63	20	2.2	20	100	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-825MVW	572	20	40	63	100	20	2.1	20	100	5	80	30	100*2	5	−40 to +85	−40 to +100
	Red		630	20	40	63	100	20	2.0	20	100	5	80	30	100*2	5	−40 to +85	−40 to +100

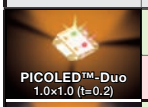
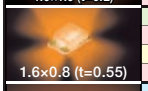
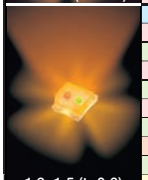
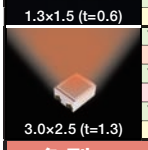
*1 Duty≤1/5，200Hz *2 Duty≤1/10，1kHz *3 Duty≤1/20，1ms *4 Duty≤1/5，1kHz *5 Duty≤1/10，pulse width 10ms Max
*关于白色，用色度坐标(x，y)标记。

贴片LED

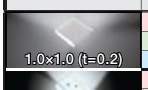
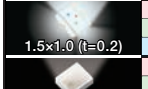
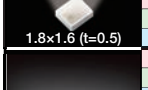
带镜头的表面贴装型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 1.6×0.8 (t=1.24)	Red	CSL0903VT	630	20	560	800	1,400	20	2.1	20	10	12	87	35	100*2	12	−40 to +100	−40 to +100
		CSL0902VT			180	280	450											
		CSL0901VT			112	180	355						62.5	25				
		CSL0903UT	620	20	710	1,200	1,800	20	2.1	20	10	12	87	35	100*2	12	−40 to +100	−40 to +100
		CSL0902UT			224	355	560											
		CSL0901UT			140	280	450						62.5	25				
	Orange	CSL0903DT	605	20	900	1,400	2,240	20	2.1	20	10	12	87	35	100*2	12	−40 to +100	−40 to +100
		New CSL0902DT			355	560	900											
		CSL0901DT			224	400	710						62.5	25				
	Yellow	CSL0903YT	590	20	560	800	1,400	20	2.1	20	10	12	87	35	100*2	12	−40 to +100	−40 to +100
		CSL0902YT			355	560	900											
		CSL0901YT			180	320	560						62.5	25				
		CSL0901WT	587	20	180	280	560	20	2.1	20	10	12	62.5	25	100*2	12	−40 to +100	−40 to +100
	Yellow Green	New CSL0902MT	571	20	112	180	280	20	2.1	20	10	12	87	35	100*2	12	−40 to +100	−40 to +100
		CSL0901MT			56	100	180						62.5	25				
	Green	CSL0901PT	560	20	14	30	45	20	2.1	20	10	12	62.5	25	100*2	12	−40 to +100	−40 to +100
		CSL0902ET	527	20	710	1,100	1,800	20	3.4	20	10	5	95	25	100*2	5	−40 to +100	−40 to +100
		CSL0901ET		5	220	360	560	5	3.0	5			70	20				
	Blue	CSL0902BT	470	20	220	360	560	20	3.3	20	10	5	95	25	100*2	5	−40 to +100	−40 to +100
		CSL0901BT		5	36	56	90	5	2.9	5			68	20				
 Reverse Mount Available 3.2×1.6 (t=1.85)	Red	SML-S13VT	630	20	160	450	630	20	1.9	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
		SML-S13UT	620	20	400	700	1,600	20	1.9	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Orange	SML-S13DT	605	20	630	1,400	2,500	20	1.9	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-S13YT	590	20	630	1,400	2,500	20	2.0	20	10	5	78	30	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-S13MT	572	20	160	400	630	20	2.0	20	10	5	78	30	100*2	5	−40 to +85	−40 to +100
	Green	SML-S13PT	560	20	63	160	400	20	2.0	20	10	5	78	30	100*2	5	−40 to +85	−40 to +100
		New SMLS14ENT	527	20	1,800	3,000	4,500	20	3.3	20	10	5	117	30	100*2	5	−40 to +85	−40 to +100
	Blue	New SMLS14BNT	470	20	450	800	1,400	20	3.2	20	10	5	117	30	100*2	5	−40 to +85	−40 to +100
 2.9×2.4 (t=3.1)	Red	CSL0701UT	624	20	9,000	18,000	25,000	20	2.1	20	10	5	120	50	150*2	5	−40 to +85	−40 to +100
	Orange	CSL0701DT	605	20	20,000	35,000	50,000	20	2.1	20	10	5	120	50	150*2	5	−40 to +85	−40 to +100

双色型

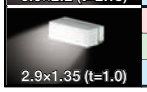
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 PICOLED™-Duo 1.0×1.0 (t=0.2)	Yellow Green	SML-P24MUW (R)	572	20	10	21	40	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Red		620	20	25	52	100	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
 1.6×0.8 (t=0.55)	Yellow Green	SML-D22MUW	570	5	6	10	16	5	2.0	5	10	5	67	25	100*2	5	−40 to +105	−40 to +110
	Red		620	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	−40 to +105	−40 to +110
	Yellow	SML-D22YVW	588	5	16	25	40	5	2.0	5	10	5	67	25	100*2	5	−40 to +105	−40 to +110
	Red		629	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	−40 to +105	−40 to +110
 1.3×1.5 (t=0.6)	Blue	New SML522BUNW	470	5	9	22	36	5	2.9	5	10	5	66	20	60*2	5	−40 to +85	−40 to +100
	Red		624	5	10	21	40	5	1.9	5	10	5	50	20	60*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-522MUW	570	20	14	40	71	20	2.1	20	100	4	52	20	60*2	4	−30 to +85	−40 to +85
	Red		630	20	22	63	110	20	1.9	20	100	4	50	20	60*2	4	−30 to +85	−40 to +85
	Yellow Green	SML-522MU8W	572	20	16	40	63	20	2.2	20	100	4	54	20	100*2	4	−40 to +85	−40 to +100
	Red		620	20	25	63	100	20	2.2	20	100	4	54	20	100*2	4	−40 to +85	−40 to +100
	Yellow Green	SML-522MD8W	572	20	10	25	40	20	2.2	20	100	4	54	20	100*2	4	−40 to +85	−40 to +100
	Orange		605	20	40	100	160	20	2.2	20	100	4	54	20	100*2	4	−40 to +85	−40 to +100
	Yellow Green	SML-522MY8W	572	20	16	40	63	20	2.2	20	100	4	54	20	100*2	4	−40 to +85	−40 to +100
	Yellow		590	20	40	63	160	20	2.2	20	100	4	54	20	100*2	4	−40 to +85	−40 to +100
 3.0×2.5 (t=1.3)	Yellow Green	SML-020MDT	570*10	20	9	20	45	20	2.2	20	100	4	60	25	60*1	4	−30 to +85	−40 to +85
	Orange		610*10	20	6	10	18	20	2.0	20	100	4	60	25	60*1	4	−30 to +85	−40 to +85
	Yellow Green	SML-020MVT	570*10	20	9	20	45	20	2.2	20	100	4	60	25	60*1	4	−30 to +85	−40 to +85
	Red		650*10	20	4	6	11	20	2.0	20	100	4	60	25	60*1	4	−30 to +85	−40 to +85
	Yellow Green	SML-020MYT	570*10	20	9	21	45	20	2.2	20	100	4	60	25	60*1	4	−30 to +85	−40 to +85
	Yellow		585*10	20	6	10	18	20	2.1	20	100	4	60	25	60*1	4	−30 to +85	−40 to +85

3色型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 1.0×1.0 (t=0.2)	Red	SMLP34RGBN1W	624	5	36	80	140	5	2.1	5	10	5	35	10	50*3	5	−40 to +85	−40 to +100
	Green		527	5	140	220	360	5	3.1	5	10	5	35	10	50*3	5	−40 to +85	−40 to +100
	Blue		470	5	36	60	140	5	3.0	5	10	5	35	10	50*3	5	−40 to +85	−40 to +100
 1.5×1.0 (t=0.2)	Red		624	5	36	80	140	5	1.9	5	10	5	35	10	50*3	5	−40 to +85	−40 to +100
	Green	New SMLP36RGBNW	527	5	140	220	360	5	2.9	5	10	5	35	10	50*3	5	−40 to +85	−40 to +100
	Blue		470	5	36	60	140	5	2.95	5	10	5	35	10	50*3	5	−40 to +85	−40 to +100
 1.8×1.6 (t=0.5)	Red		624	20	220	400	560	20	2.1	20	10	5	180*6 *7	30	100	5	−40 to +85	−40 to +100
	Green	MSL0402RGBU*9	527	20	360	550	900	20	3.5	20	100	5	180*6 *7	30	100	5	−40 to +85	−40 to +100
	Blue		470	20	90	180	360	20	3.3	20	100	5	180*6 *7	30	100	5	−40 to +85	−40 to +100
 3.5×2.8 (t=0.6)	Red		624	20	450	700	1,100	20	2.1	20	10	5	400*6 *7	50	100	5	−40 to +85	−40 to +100
	Green	SMLVN6RGB1U*9	527	20	710	1,200	1,800	20	3.3	20	—	—	400*6 *7	40	100	—	−40 to +85	−40 to +100
	Blue		470	20	220	400	560	20	3.3	20	—	—	400*6 *7	40	100	—	−40 to +85	−40 to +100
	Red		624	20	450	700	1,100	20	2.1	20	10	5	400*6 *7	50	100	5	−40 to +85	−40 to +100
	Green	SMLVN6RGB1W*8	527	20	710	1,200	1,800	20	3.3	20	—	—	400*6 *7	40	100	—	−40 to +85	−40 to +100
	Blue		470	20	220	400	560	20	3.3	20	—	—	400*6 *7	40	100	—	−40 to +85	−40 to +100
	Red		624	20	280	500	900	20	2.1	20	10	5	180*6 *7	30	100	5	−40 to +85	−40 to +100
	Green	SMLVN6RGB7W	527	20	560	1,000	1,800	20	3.5	20	—	—	180*6 *7	30	100	—	−40 to +85	−40 to +100
	Blue		470	20	140	300	560	20	3.3	20	—	—	180*6 *7	30	100	—	−40 to +85	−40 to +100

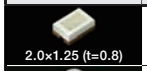
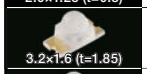
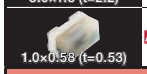
*1 Duty≤1/5，200Hz *2 Duty≤1/10，1kHz *3 Duty≤1/20，1ms *4 Duty≤1/5，1kHz *5 Duty≤1/10，pulse width 10ms Max
*6 三色亮灯时总允许损耗(DC驱动，三色同时亮灯时绝对最大额定值为分别亮灯时的30%以下)
*7 50mm×50mm、基材：FR4：t=1.6mm 铜箔：t=0.07mm
*8 环氧树脂 *9 硅树脂 *10 峰值波长
注：PICOLED™是ROHM.Co.,Ltd.的商标或注册商标。

3色型

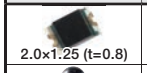
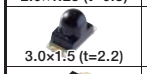
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 3 Colors Side View type 6.9×2.2 (t=2.15)	Red	MSL0104RGBU*9	624	20	450	700	1,100	20	2.1	20	10	5	400*6*7	50	100	5	−40 to +85	−40 to +100
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400*6*7	40	100	—	−40 to +85	−40 to +100
	Blue		470	20	220	400	560	20	3.2	20	—	—	400*6*7	40	100	—	−40 to +85	−40 to +100
	Red	MSL0104RGBW*8	624	20	450	700	1,100	20	2.1	20	10	5	400*6*7	50	100	5	−40 to +85	−40 to +100
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400*6*7	40	100	—	−40 to +85	−40 to +100
	Blue		470	20	220	400	560	20	3.2	20	—	—	400*6*7	40	100	—	−40 to +85	−40 to +100
 2.9×1.35 (t=1.0)	Red	MSL0601RGBU	624	20	600	700	830	20	2.1	20	10	5	300*6*7	40	100	5	−40 to +85	−40 to +100
	Green		527	20	1,100	1,250	1,500	20	3.3	20	10	5	300*6*7	30	100	5	−40 to +85	−40 to +100
	Blue		470	20	290	360	500	20	3.2	20	10	5	300*6*7	30	100	5	−40 to +85	−40 to +100

*1 Duty≤1/5，200Hz *2 Duty≤1/10，1kHz *3 Duty≤1/20，1ms *4 Duty≤1/5，1kHz *5 Duty≤1/10，pulse width 10ms Max
*6 三色亮灯时总允许损耗(DC驱动，三色同时亮灯时绝对最大额定值为分别亮灯时的30%以下)
*7 50mm×50mm、基材：FR4：t=1.6mm 铜箔：t=0.07mm
*8 环氧树脂 *9 硅树脂 *10 峰值波长

表面贴装红外LED

Package (mm)	Part No.	LED Chip	Emitting Color	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Rating (T_a=25°C)					
				Light Wavelength λ_P		Radiant Intensity				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
				Typ (nm)	I_F (mA)	Min (mW/sr)	Typ (mW/sr)	Max (mW/sr)	I_F (mA)	Typ (V)	I_F (mA)	Typ (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 2.0×1.25 (t=0.8)	SML-M13RT	AlGaAs	Infrared	870	20	0.5	1.7	3.5	20	1.4	20	10	5	60	30	100*1	5	−40 to +85	−40 to +100
 3.2×1.6 (t=1.85)	SML-S13RT	AlGaAs	Infrared	850	20	1.5	2.5	3.6	20	1.4	20	10	5	60	30	300*1	5	−40 to +85	−40 to +100
 Reverse Mount Available 3.2×1.6 (t=1.85)	SML-S15R2T	AlGaAs	Infrared	870	20	5.6	12	22	20	1.4	20	10	5	100	50	300*1	5	−40 to +85	−40 to +100
 3.0×1.5 (t=2.2)	SCM-013RT	AlGaAs	Infrared	850	20	0.5	2.0	5.0	20	1.4	20	10	5	57	30	300*1	5	−40 to +85	−40 to +100
 1.0×0.58 (t=0.53)	New CSL1501RW	AlGaAs	Infrared	(860)	30	(1.2)	(1.6)	(2.2)	20	(1.4)	20	10	5	100	50	200*1	5	−40 to +85	−40 to +100
						1.9	(2.5)	3.4	30	(1.5)	30								

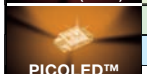
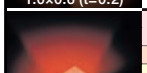
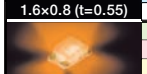
表面贴装光电晶体管

Package (mm)	Part No.	LED Chip	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Light Current			Dark Current		Sensitivity Wavelength	Collector-Emitter Saturation Voltage				Collector-Emitter Voltage	Emitter-Collector Voltage	Collector Current	Collector Power Dissipation	Operating Temperature Topr	Storage Temperature Tstg
			Min (mA)	Max (mA)	V_{CE} (V) /E_E (Lx)	Max (μA)	V_{CE} (V)	λ_P Typ (nm)	Min (V)	Typ (V)	Max (V)	I_C (mA) /E_E (Lx)	(V)	(V)	(mA)	(mW)	(°C)	(°C)
 2.0×1.25 (t=0.8)	SML-H10TB	Si	2.0	4.0	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500	32	5	30	80	−30 to +85	−30 to +100
 3.0×1.5 (t=2.2)	SCM-014TB	Si	0.3	3.8	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500	32	5	30	100	−30 to +85	−30 to +100
 Reverse Mount Available 3.4×1.25 (t=1.1)	SML-810TB	Si	2.3	3.8	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500	32	5	30	80	−30 to +85	−30 to +100

*1 Duty≤1/10, 1kHz

( )：参考值

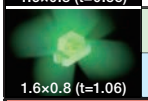
低电流型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 PICOLED™-eco 1.0×0.6 (t=0.2)	Red	SML-P11VT (R)	626	1	2	4	6	1	1.8	1	10	5	50	20	100*2	5	−40 to +85	−40 to +100
		SML-P11UT (R)	621	1	1	3	6	1	1.8	1	10	5	50	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-P11DT (R)	605	1	4	7	16	1	1.9	1	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-P11YT (R)	586	1	4	8	16	1	1.9	1	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-P11MT (R)	569	1	1	2	4	1	1.9	1	10	5	54	20	100*2	5	−40 to +85	−40 to +100
 PICOLED™ 1.0×0.6 (t=0.2)	Green	New SMLP14ECNW	527	5	56	110	220	5	3.0	5	100	5	34	10	50*2	5	−40 to +85	−40 to +100
	Blue	New SMLP14BCNW	470	5	9	25	56	5	2.9	5	100	5	33	10	50*2	5	−40 to +85	−40 to +100
	White	SMLP14WBCN1W	(x, y) (0.30, 0.30)	5	90	180	360	5	2.9	5	100	5	33	10	50*2	5	−40 to +85	−40 to +100
 1.6×0.8 (t=0.55)	Red	New CSL1901VW	630	2	1.6	4.8	6.3	2	1.8	2	10	5	44	20	100*2	5	−40 to +85	−40 to +100
		New CSL1901UW	620	2	2.5	6	10	2	1.8	2	10	5	44	20	100*2	5	−40 to +85	−40 to +100
	Orange	New CSL1901DW	605	2	6.3	9.4	25	2	1.8	2	10	5	44	20	100*2	5	−40 to +85	−40 to +100
	Yellow	New CSL1901YW	590	2	6.3	9.4	25	2	1.8	2	10	5	44	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	New CSL1901MW	570	2	1	3	4	2	1.8	2	10	5	44	20	100*2	5	−40 to +85	−40 to +100
	Green	SMLD12EN1W	527	5	56	140	220	5	3.0	5	10	5	70	20	100*2	5	−40 to +100	−40 to +100
	Blue Green	SMLD12E2N1W	505	5	56	120	140	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
		SMLD12E3N1W	496	5	56	85	140	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
	Blue	SMLD12BN1W	470	5	14	40	56	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
	White	SMLD12WBN1W	(x, y) (0.295, 0.280)	5	56	120	220	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
 1.6×0.8 (t=0.55)	Yellow Green	SML-D22MUW	570	5	6	10	16	5	2.0	5	10	5	67	25	100*2	5	-40 to +105	-40 to +110
	Red		620	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	-40 to +105	-40 to +110
	Yellow	SML-D22YVW	588	5	16	25	40	5	2.0	5	10	5	67	25	100*2	5	-40 to +105	-40 to +110
	Red		629	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	-40 to +105	-40 to +110
 1.3×1.5 (t=0.6)	Blue	New SML522BUNW	470	5	9	22	36	5	2.9	5	10	5	66	20	60*2	5	−40 to +85	−40 to +100
	Red		624	5	10	21	40	5	1.9	5	10	5	50	20	60*2	5	−40 to +85	−40 to +100

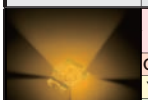
*1 Duty≤1/5, 200Hz *2 Duty≤1/10, 1kHz *3 Duty≤1/20, 1ms *4 Duty≤1/5, 1kHz *5 Duty≤1/10, pulse width 10ms Max
*关于白色，用色度坐标(x, y)标记。
注：PICOLED™是ROHM.Co.,Ltd.的商标或注册商标。

贴片LED(车载适用品)

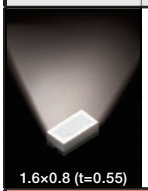
车载适用型 模具型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
	Red	SML-D15VW (C)	630	20	71	90	112	20	2.0	20	10	12	84	35	100*1	12	−40 to +100	−40 to +100	YES
		SML-D13VW (C)			35.5	55	90						72	30					YES
		SML-D12V8W (C)			16	40	100		2.2			5	54	20		5			YES
		SML-D15UW (C)	620	20	90	112	140	20	2.0	20	10	12	84	35	100*1	12	−40 to +100	−40 to +100	YES
		SML-D13UW (C)			56	85							72	30					YES
		SML-D12U8W (C)			25	63	160		2.2			5	54	20		5			YES
		SML-D15U2W (C)	615	20	112	140	180	20	2.0	20	10	12	84	35	100*1	12	−40 to +100	−40 to +100	YES
	Orange	SML-D15DW (C)	605	20	180	224	280	20	2.0	20	10	12	84	35	100*1	12	−40 to +100	−40 to +100	YES
		SML-D13DW (C)			71	120	180						72	30					YES
		SML-D12D8W (C)			40	100	250		2.2			5	54	20		5			YES
	Yellow	SML-D15YW (C)	590	20	180	224	280	20	2.1	20	10	12	87	35	100*1	12	−40 to +100	−40 to +100	YES
		SML-D12Y8W (C)			25	63	160		2.2			5	54	20		5			YES
		SML-D12W8W (C)	587.5	2	4.5	7.1	11.2	2	2.0	2	10	12	52	20	100*1	12	−40 to +100	−40 to +100	YES
		SML-D13WW (C)	587	20	71	110	180	20	2.1	20	10	12	75	30	100*1	12	−40 to +100	−40 to +100	YES
	Yellow Green	SML-D12M8W (C)	572	20	10	25	63	20	2.2	20	10	5	54	20	100*1	5	−40 to +100	−40 to +100	YES
		SML-D15MW (C)	571	20	56	71	90	20	2.1	20	10	12	87	35	100*1	12	−40 to +100	−40 to +100	YES
		SML-D13MW (C)			28	45	71						75	30					YES
	Green	SML-D13FW (C)	564	20	14	22	35.5	20	2.1	20	10	12	75	30	100*1	12	−40 to +100	−40 to +100	YES
		SML-D12P8W (C)	560	20	2.5	6.3	16	20	2.2	20	10	5	54	20	100*1	5	−40 to +100	−40 to +100	YES
	Blue	SMLD12BN1W (C)	470	5	14	40	56	5	2.9	5	10	12	66	20	100*1	12	−40 to +100	−40 to +100	YES
1.6×0.8 (t=0.55)	White	SMLD12WBN1W (C)	(x, y) (0.295, 0.28)	5	56	120	220	5	2.9	5	10	12	66	20	100*1	12	−40 to +100	−40 to +100	YES
	Green	CSL1001ET (C)	527	5	90	140	224	5	3.0	5	10	5	35	10	50*1	5	−40 to +100	−40 to +100	YES
1.6×0.8 (t=1.06)	Blue	CSL1001BT (C)	470	1	4	6	8	1	2.8	1	10	5	33	10	50*1	5	−40 to +100	−40 to +100	YES

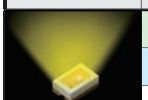
车载适用型 模具型0805(20125M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
	Red	SML-H12V8T (C)	630	20	16	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100	YES
		SML-H12U8T (C)	620	20	25	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100	YES
	Orange	SML-H12D8T (C)	605	20	40	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100	YES
	Yellow	SML-H12Y8T (C)	590	20	40	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100	YES
	Yellow Green	SML-H12M8T (C)	572	20	10	25	40	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100	YES
2.0×1.25 (t=0.8)	Green	SML-H12P8T (C)	560	20	2.5	4	10	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100	YES

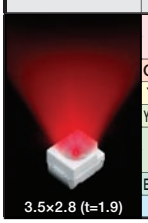
车载适用型 折射型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
	White	CSL1101WBAW (C)	(x, y) (0.282, 0.249)	5	90	140	220	5	2.9	5	10	5	68	20	100*1	12	−40 to +110	−40 to +110	YES
		CSL1101WBBW (C)	(x, y) (0.261, 0.261)	5	90	140	220	5	2.9	5	10	5	68	20	100*1	12	−40 to +110	−40 to +110	YES
		CSL1101WBCW (C)	(x, y) (0.303, 0.294)	5	90	140	220	5	2.9	5	10	5	68	20	100*1	12	−40 to +110	−40 to +110	YES
		CSL1101WBDW (C)	(x, y) (0.284, 0.303)	5	90	140	220	5	2.9	5	10	5	68	20	100*1	12	−40 to +110	−40 to +110	YES
		CSL1102WBAW (C)	(x, y) (0.282, 0.249)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*1	12	−40 to +110	−40 to +110	YES
		CSL1102WBBW (C)	(x, y) (0.261, 0.261)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*1	12	−40 to +110	−40 to +110	YES
		CSL1102WBCW (C)	(x, y) (0.303, 0.294)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*1	12	−40 to +110	−40 to +110	YES
1.6×0.8 (t=0.55)		CSL1102WBDW (C)	(x, y) (0.284, 0.303)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*1	12	−40 to +110	−40 to +110	YES

车载适用型 折射型0805(201258M)

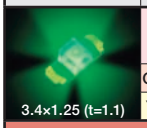
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
	Green	SMLMN2ECT (C)	527	5	56	140	360	5	3.0	5	10	12	70	20	100*2	12	−40 to +100	−40 to +100	YES
	Blue	SMLMN2BCT (C)	470	5	14	36	90	5	2.9	5	10	12	68	20	100*2	12	−40 to +100	−40 to +100	YES
2.0×1.25 (t=0.8)	White	SMLMN2WB1CW (C)	(x, y) (0.30, 0.28)	5	56	140	220	5	2.9	5	10	12	68	20	100*2	12	−40 to +100	−40 to +100	YES

车载适用型 折射型PLCC(3528M)

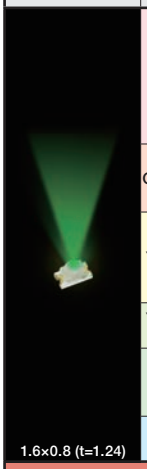
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
	Red	SML-Z14VT (C)	630	20	56	112	180	20	1.9	20	10	12	168	70	200*2	12	−40 to +100	−40 to +100	YES
		SML-Z14UT (C)	620	20	112	224	355	20	1.9	20	10	12	168	70	200*2	12	−40 to +100	−40 to +100	YES
	Orange	SML-Z14DT (C)	605	20	140	280	450	20	1.9	20	10	12	168	70	200*2	12	−40 to +100	−40 to +100	YES
	Yellow	SML-Z14YT (C)	589	20	140	280	450	20	2.0	20	10	12	175	70	200*2	12	−40 to +100	−40 to +100	YES
	Yellow Green	SML-Z14MT (C)	571	20	45	90	140	20	2.0	20	10	12	175	70	200*2	12	−40 to +100	−40 to +100	YES
	Green	SML-Z14FT (C)	564	20	22.4	45	71	20	2.0	20	10	12	175	70	200*2	12	−40 to +100	−40 to +100	YES
		SML-Z14PT (C)	560	20	11.2	22.4	35.5	20	2.0	20	10	12	175	70	200*2	12	−40 to +100	−40 to +100	YES
	Blue Green	SMLZ24E2N3T (C)	505	20	900	1,140	1,800	20	3.2	20	—	—	152	40	100*2	—	−40 to +100	−40 to +100	YES
3.5×2.8 (t=1.9)	Blue	SMLZ24BN3T (C)	470	20	220	300	450	20	3.3	20	—	—	114	30	100*2	—	−40 to +100	−40 to +100	YES

*1 Duty≤1/10, 1kHz *2 Duty≤1/10, 1kHz
*关于白色，用色度坐标(x，y)标记。

车载适用型 可背面贴装型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_v				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
 3.4×1.25 (t=1.1)	Red	SML-811VT (C)	630	10	11.2	22.4	45	10	1.95	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100	YES
		SML-811UT (C)	620	10	11.2	22.4	45	10	1.95	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100	YES
	Orange	SML-811DT (C)	605	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100	YES
	Yellow	SML-811WT (C)	590	10	14	28	56	10	1.95	10	100	5	62	25	100*2	5	−40 to +85	−40 to +100	YES

车载适用型 带镜头的表面贴装型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_v				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
 1.6×0.8 (t=1.24)	Red	New CSL0903VT (C)	630	20	560	800	1,120	20	2.1	20	10	12	87	35	100*1	12	−40 to +110	−40 to +110	YES
		New CSL0902VT (C)			180	280	355												YES
		New CSL0901VT (C)			140	180	280						75	30					YES
		New CSL0903UT (C)	620	20	900	1,200	1,800	20	2.1	20	10	12	87	35	100*1	12	−40 to +110	−40 to +110	YES
		New CSL0902UT (C)			280	450	560												YES
		New CSL0901UT (C)			180	280	355						75	30					YES
	Orange	New CSL0903DT (C)	605	20	900	1,400	1,800	20	2.1	20	10	12	87	35	100*1	12	−40 to +110	−40 to +110	YES
		New CSL0902DT (C)			450	710	900												YES
		New CSL0901DT (C)			280	400	560						75	30					YES
	Yellow	New CSL0903YT (C)	590	20	560	800	1,120	20	2.1	20	10	12	87	35	100*1	12	−40 to +110	−40 to +110	YES
		New CSL0902YT (C)			355	560	710												YES
		New CSL0901YT (C)			224	320	450						75	30					YES
		New CSL0901WT (C)	587	20	180	280	355	20	2.1	20	10	12	75	30	100*1	12	−40 to +110	−40 to +110	YES
	Yellow Green	New CSL0901MT (C)	571	20	90	120	180	20	2.1	20	10	12	75	30	100*1	12	−40 to +110	−40 to +110	YES
		New CSL0902MT (C)	570	20	112	150	224	20	2.1	20	10	12	87	35	100*1	12	−40 to +110	−40 to +110	YES
	Green	New CSL0901PT (C)	560	20	14	25	35.5	20	2.1	20	10	12	75	30	100*1	12	−40 to +110	−40 to +110	YES
		New CSL0902ET (C)	527	20	900	1,200	1,800	20	3.4	20	10	5	114	30	100*1	5	−40 to +110	−40 to +110	YES
		New CSL0901ET (C)		5	220	360	450	5	3.0	5			70	20					YES
	Blue	New CSL0902BT (C)	470	20	220	360	450	20	3.3	20	10	5	114	30	100*1	5	−40 to +110	−40 to +110	YES
		New CSL0901BT (C)		5	45	56	90	5	2.9	5			68	20					YES

车载适用型 3色型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_v				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
 3.5×2.8 (t=0.6)	Red		621	20	600	750	900	20	2.1	20	10	5	400	50	100	5	−40 to +100	−40 to +100	
	Green	New SMLVN6RGBFU1 (C)	525	20	1,440	1,800	2,160	20	3.3	20	—	—	400	40	100	—	−40 to +100	−40 to +100	YES
	Blue		470	20	320	430	540	20	3.3	20	—	—	400	40	100	—	−40 to +100	−40 to +100	

*1 Duty≤1/10, 1kHz *2 Duty≤1/10, 1kHz

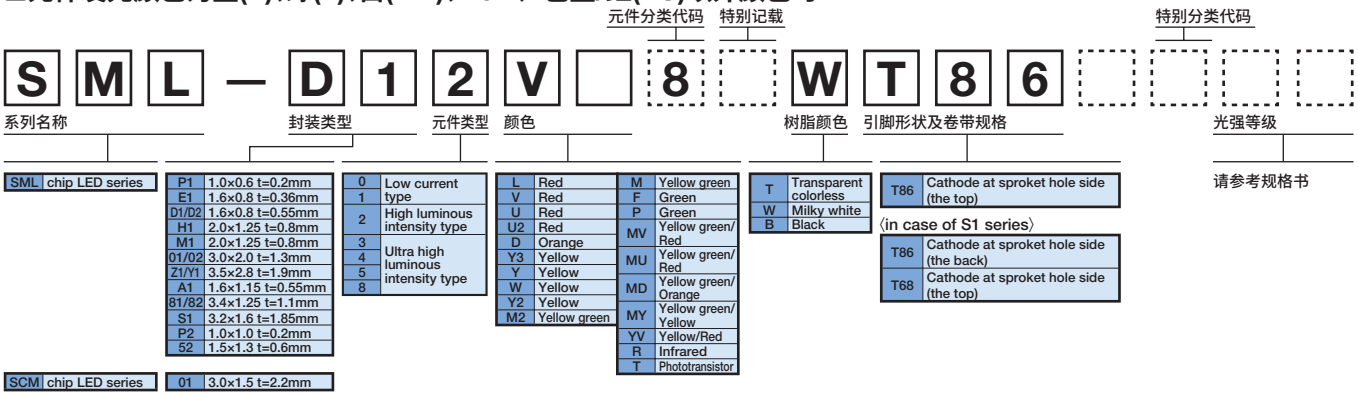
贴片LED

●品名构成说明

〈贴片LED〉

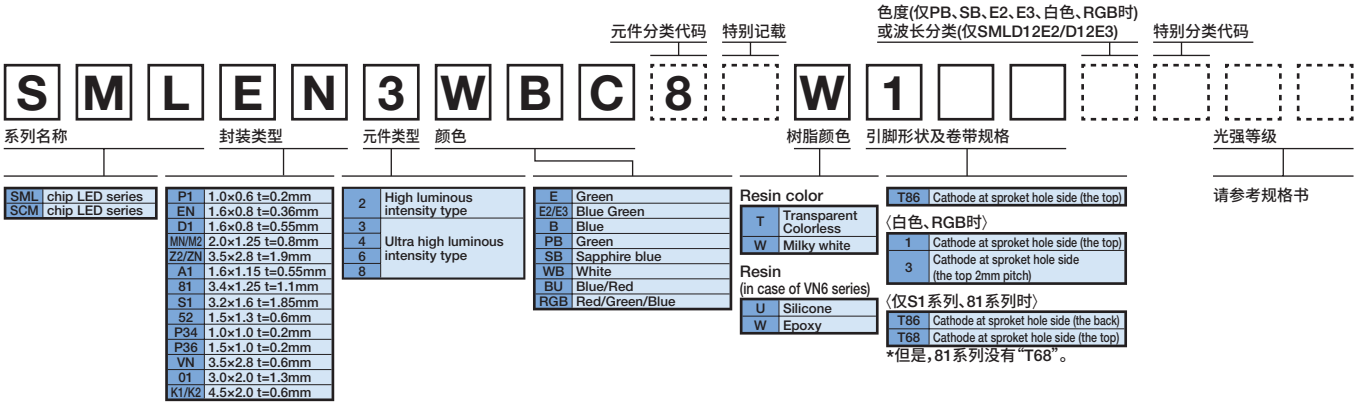
[系列名称:SML或SCM]

■元件发光颜色为蓝(B)、绿(E)、白(WB)、RGB、2色蓝/红(BU)以外颜色时

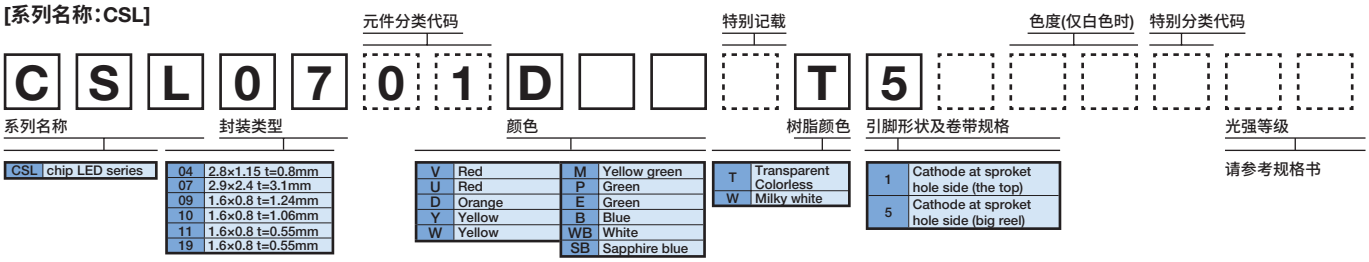


[系列名称:SML或SCM]

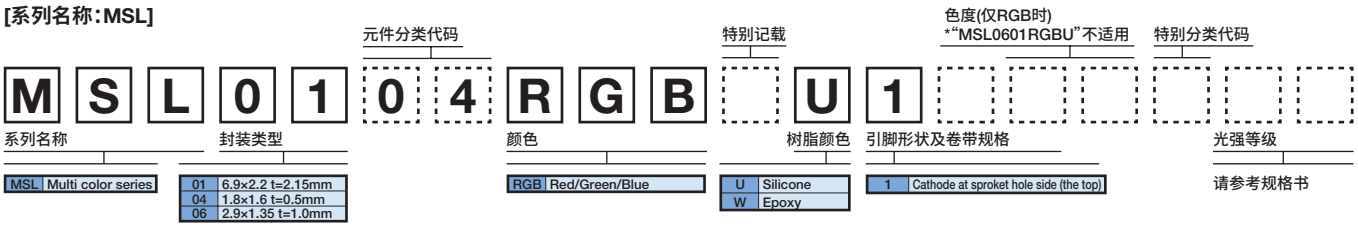
■元件发光颜色为蓝(B)、绿(E)、白(WB)、RGB、2色蓝/红(BU)时



[系列名称:CSL]



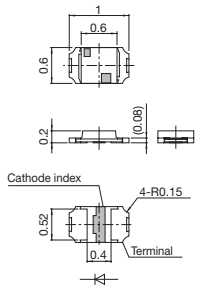
[系列名称:MSL]



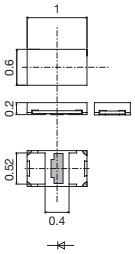
●外形尺寸图 (单位:mm)

〈模具类型〉

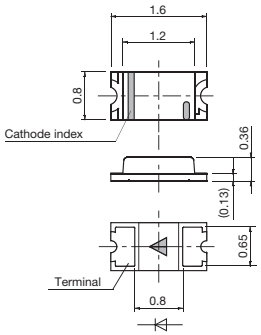
● SML-P1 series
(PICOLED™)



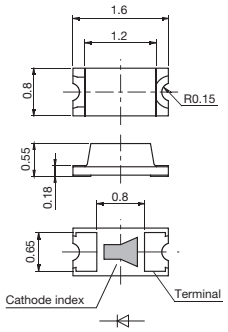
● SMLP14 series
(PICOLED™)



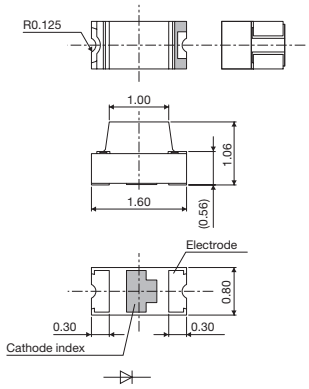
● SML-E1/EN series



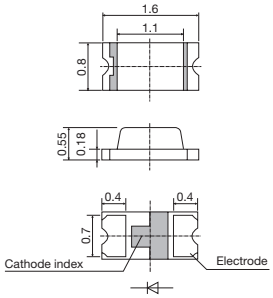
● SML-D1 series



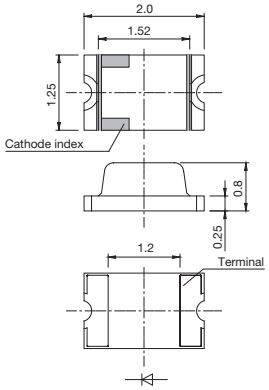
● CSL10 series



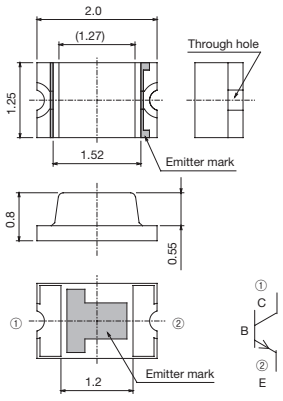
● CSL19 series



● SML-H1 series



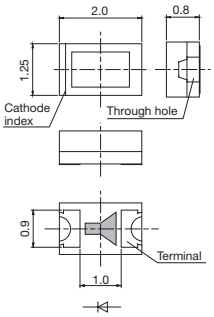
● SML-H10TB



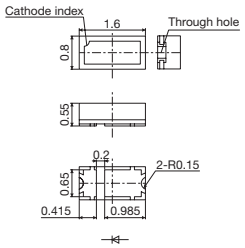
注 : PICOLED®是ROHM.Co.,Ltd的商标或注册商标。

〈折射型〉

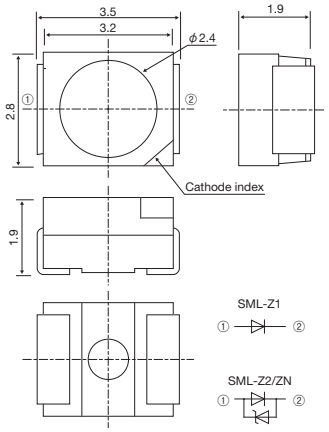
● SML-M1/MN series



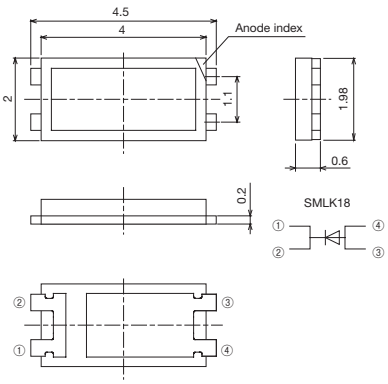
● CSL11 series



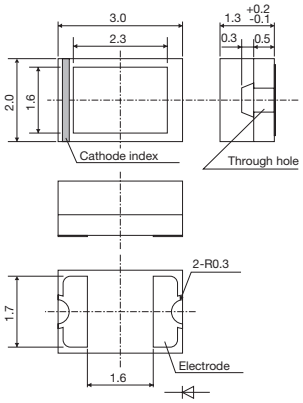
● SML-Z1/Z2/ZN series



● SMLK1 series



● SML-01 series



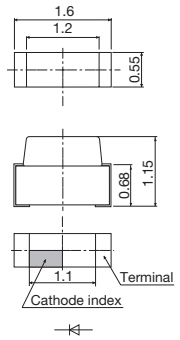
*详情请参考规格书。

贴片LED

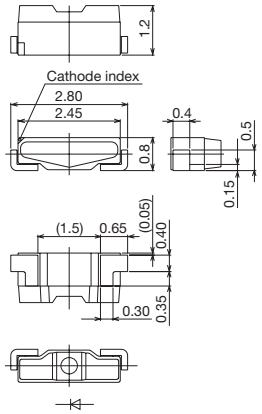
●外形尺寸图 (单位:mm)

〈侧视型〉

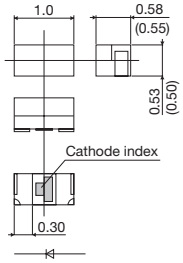
● SML-A1 series



● CSL04 series

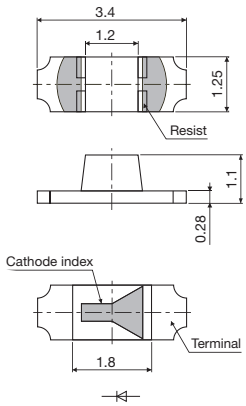


● CSL1501RW

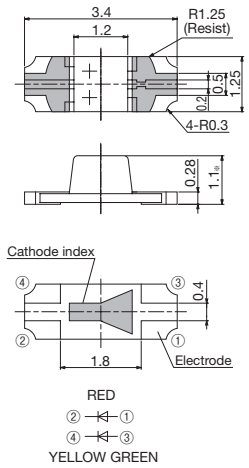


〈可背面安装型〉

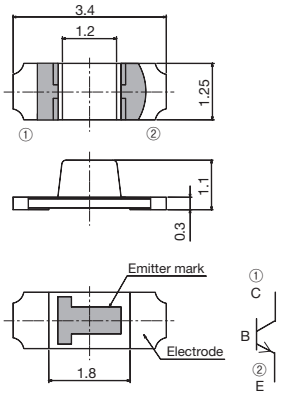
● SML-81 series



● SML-82 series

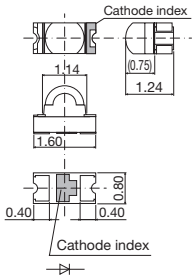


● SML-810TB

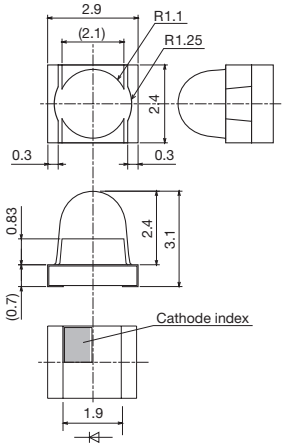


〈表面贴装透镜型〉

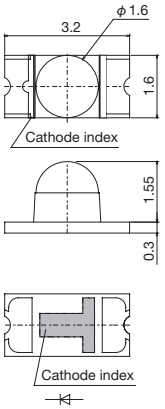
● CSL09 series



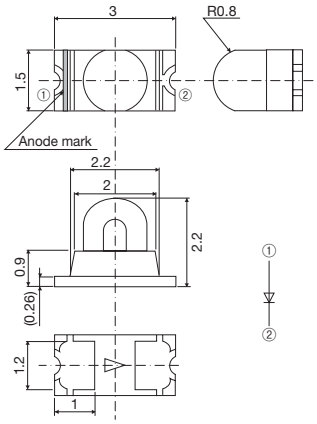
● CSL07 series



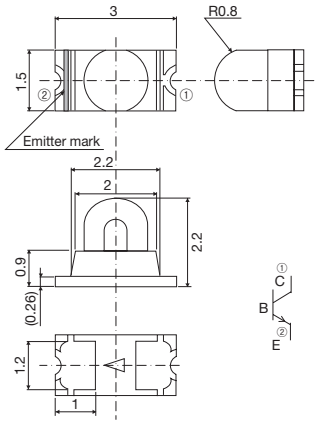
● SML-S1 series



● SCM-013RT



● SCM-014TB

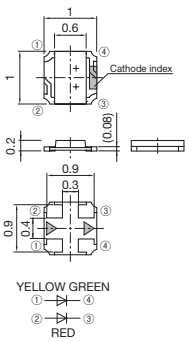


*详情请参考规格书。

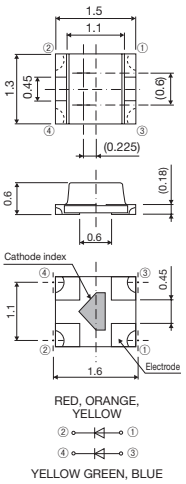
●外形尺寸图 (单位:mm)

〈双色型〉

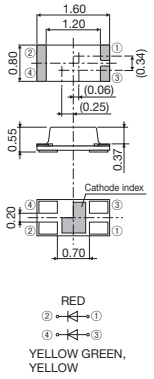
● SMLP2 series (PICOLED™-Duo)



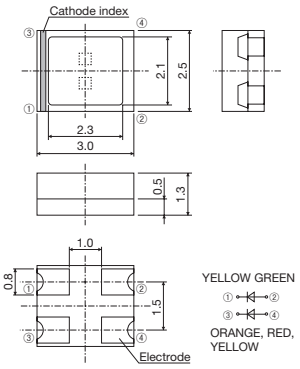
● SML-52 series



● SML-D2 series

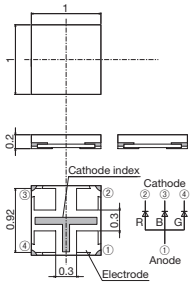


● SML-02M series

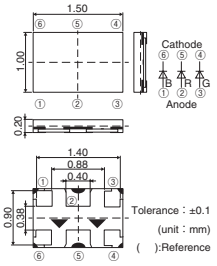


〈3色型〉

● SMLP34 series (PICOLED™-RGB)



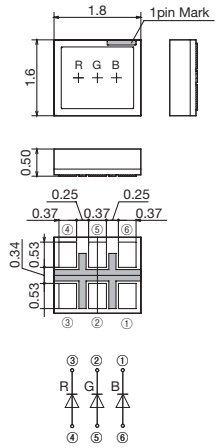
● SMLP36 series (PICOLED™-RGB)



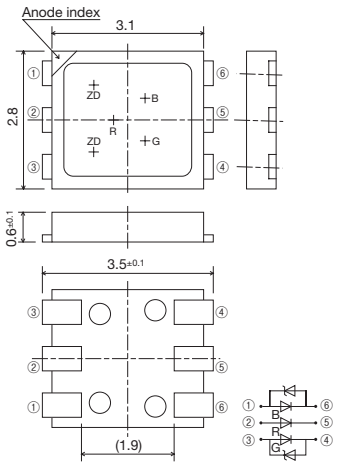
注 : PICOLED®是ROHM.Co.,Ltd的商标或注册商标。

〈3色型〉

● MSL04 series

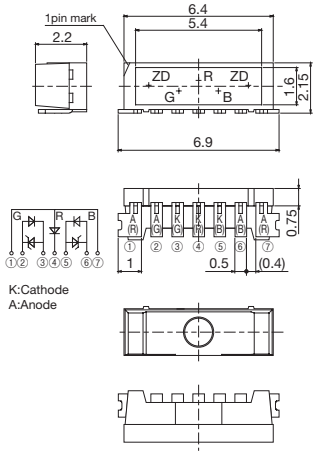


● SMLVN6 series

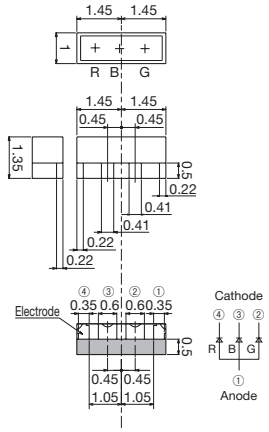


〈3色侧视型〉

● MSL01 series



● MSL06 series



*详情请参考规格书。

插件LED

罗姆提供种类繁多的插件LED，伴随自动化安装的发展，以直接安装于基板的LED为首，
提供用于户外显示器等设备的高亮度插件LED系列，其用途广泛。

<高亮度等级一览表1>

XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

红色(V, U)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity Rank / Luminous intensity (mcd) / I_F (mA)	K 3.6 to 7.1	L 5.6 to 11	M 9 to 18	N 14 to 28	P 22 to 45	Q 36 to 71	R 56 to 110	S 90 to 180	T 140 to 280	U 220 to 450	V 360 to 710
φ3 Circular type	40°	Transparent Colored	20					SLI-343V8RC*1			SLI-343URC*			
								SLI-343U8RC*1						
									SLI-343URC (W)*					
			10			SLR-343VC*								
		Diffused Colored	20				SLI-343V8R*1				SLI-343UR*			
							SLI-343U8R*1							
									SLI-343UR (W)*					
			10		SLR-343VR*									
	85°	Transparent Colored / Diffused Colored	10	SLR-332VC* / SLR-332VR*										
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20						SLI-325URC (W)*					
			10		SLR-325VC*									
		Diffused Colored	20						SLI-325UR (W)*					
			10	SLR-325VR*										
φ3 Flat disc type	35°	Transparent Colored	10		SLR-322VC*									
	50°	Diffused Colored		SLR-322VR*										
φ4 Oval type	140°	Diffused Colored	20						SLI-430U2R*1					
φ5 Circular type	10°	Transparent Colorless	20											SLI-580UT*/*2
	20°													SLI-570U2T*2
													SLI-570UT*/*2	
	40°											SLI-560UT*/*2		
		Transparent Colored / Diffused Colored	10	SLR-56VR*		SLR-56VC*								

<高亮度等级一览表1>

XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

橙色(D)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity Rank / Luminous intensity (mcd) / I_F (mA)	J 2.2 to 4.5	K 3.6 to 7.1	L 5.6 to 11	M 9 to 18	N 14 to 28	P 22 to 45	Q 36 to 71	R 56 to 110	S 90 to 180	T 140 to 280	U 220 to 450	V 360 to 710
φ3 Circular type	40°	Transparent Colored	20								SLI-343D8C*1		SLI-343DC*		
											SLI-343DC (W)*				
			10				SLR-343DC*								
		Diffused Colored	20								SLI-343D8U*1		SLI-343DU*		
											SLI-343DU (W)*				
			10			SLR-343DU*									
	85°	Transparent Colored / Diffused Colored	10			SLR-332DC* / SLR-332DU*									
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20							SLI-325DC (W)*					
			10			SLR-325DC*									
		Diffused Colored	20							SLI-325DU (W)*					
			10			SLR-325DU*									
φ3 Flat disc type	35°	Transparent Colored	10			SLR-322DC*									
	50°	Diffused Colored			SLR-322DU*										
φ4 Oval type	140°	Diffused Colored	20							SLI-430DU*1					
φ5 Circular type	10°	Transparent Colorless	20												SLI-580DT*/*2
	20°													SLI-570DT*/*2	
	40°												SLI-560DT*/*2		
		Transparent Colored / Diffused Colored	10		SLR-56DU*			SLR-56DC*							

<高亮度等级一览表1>

XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

黄色(Y)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity Rank / Luminous intensity (mcd) / I_F (mA)	J 2.2 to 4.5	K 3.6 to 7.1	L 5.6 to 11	M 9 to 18	N 14 to 28	P 22 to 45	Q 36 to 71	R 56 to 110	S 90 to 180	T 140 to 280	U 220 to 450	V 360 to 710
φ3 Circular type	40°	Transparent Colored	20									SLI-343YC*			
											SLI-343Y8C*1				
											SLI-343YC (W)*				
			10				SLR-343YC*								
		Diffused Colored	20									SLI-343YY*			
											SLI-343Y8Y*1				
											SLI-343YY (W)*				
			10			SLR-343YY*									
	85°	Transparent Colored	10			SLR-332YC*									
		Diffused Colored			SLR-332YY*										
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20								SLI-325YC (W)*				
			10				SLR-325YC*								
		Diffused Colored	20								SLI-325YY (W)*				
			10		SLR-325YY*										
φ3 Flat disc type	35°	Transparent Colored	10			SLR-322YC*									
	50°	Diffused Colored				SLR-322YY*									
φ4 Oval type	140°	Diffused Colored	20								SLI-430Y2U*1				
φ5 Circular type	10°	Transparent Colorless	20												SLI-580YT*/*2
	20°														SLI-570Y2T*2
														SLI-570YT*/*2	
	40°												SLI-560YT*/*2		
		Transparent Colored / Diffused Colored	10			SLR-56YY*		SLR-56YC*							

*规格书所示光强包含±10%误差。 *1 请参照高亮度等级表1。 *2 请参照高亮度等级表2。

绿色(M, P, E)光强一览表

<高亮度等级一览表1>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
10 to 15	15 to 22	22 to 33	33 to 47	47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU	XV	XW
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500	13500 to 24000	20000 to 36000

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity Rank / Luminous intensity (mcd) / I_F (mA)	J 2.2 to 4.5	K 3.6 to 7.1	L 5.6 to 11	M 9 to 18	N 14 to 28	P 22 to 45	Q 36 to 71	R 56 to 110	S 90 to 180	T 140 to 280	U 220 to 450	V 360 to 710
	40°	Transparent Colored	20								SLI-343MC*				
											SLI-343M8C*1				
						SLI-343P8C*1									
			10				SLR-343MC*								
				SLR-343PC*											
		Diffused Colored	20								SLI-343MG*				
											SLI-343M8G*1				
						SLI-343P8G*1									
			10			SLR-343MG*									
				SLR-343PG*											
		Transparent Colorless	20												SLR343EN4T*/*2
	85°	Diffused Colored	10			SLR-332MC*									
		Transparent Colored				SLR-332MG*									
ϕ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	10				SLR-325MC*								
		Diffused Colored				SLR-325MG*									
ϕ3 Flat disc type	35°	Transparent Colored	10				SLR-322MC*								
	50°	Diffused Colored				SLR-322MG*									
ϕ4 Oval type	140°	Diffused Colored	20								SLI-430MG*1				
ϕ5 Circular type	10°	Transparent Colorless	20										SLA-580MT*/*2		
	20°												SLA-570MT*/*2		
	40°									SLA-560MT*/*2					
		Transparent Colored	10					SLR-56MC*							
		Diffused Colored				SLR-56MG*									
	10°	Transparent Colorless	20												SLA580ENT*/*2
	40°													SLA560EN4T*/*2	

蓝色(B)光强一览表

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity Rank / Luminous intensity (mcd) / I_F (mA)	XH 150 to 220	XJ 220 to 330	XK 330 to 470	XL 470 to 680	XM 680 to 1000	XN 1000 to 1500	XP 1500 to 2200	XQ 2200 to 3300	XR 3300 to 4700	XS 4700 to 6800	XT 6800 to 10000	XU 10000 to 15000
ϕ3 Circular type	40°	Transparent Colorless	20				SLR343BN2T								
												SLR343BN4T*/*2			
ϕ5 Circular type	10°	Transparent Colorless	20											SLA580BNT*/*2	
	40°												SLA560BN2T*2		
												SLA560BN4T*/*2			

白色(WB)光强一览表

<高亮度等级一览表2>

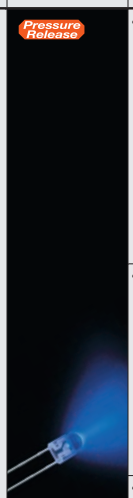
XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity Rank / Luminous intensity (mcd) / I_F (mA)	XJ 220 to 330	XK 330 to 470	XL 470 to 680	XM 680 to 1000	XN 1000 to 1500	XP 1500 to 2200	XQ 2200 to 3300	XR 3300 to 4700	XS 4700 to 6800	XT 6800 to 10000	XU 10000 to 15000
ϕ3 Circular type	40°	Transparent Colorless	20						SLR343WBN2PT					
ϕ5 Circular type	40°	Transparent Colorless	20						SLA560WBN2PT					

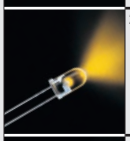
*规格书所示光强包含±10%误差。 *1 请参照高亮度等级表1。 *2 请参照高亮度等级表2。

插件LED

φ3 型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
					Dominant Wavelength λ_d/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
					Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
φ3 Circular type		40° Standard	Red	SLI-343V8RC	639	20	150	330	(680)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343V8R			100	220	(470)											
				SLI-343U8RC	630	20	150	330	(680)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343U8R			100	220	(470)											
			Orange	SLI-343D8C	611	20	330	680	(1,500)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343D8U			220	470	(1,000)											
			Yellow	SLI-343Y8C	593	20	330	680	(1,500)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343Y8Y			220	470	(1,000)											
			Yellow Green	SLI-343M8C	572	20	68	150	(330)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343M8G																
			Green	SLI-343P8C	560	20	10	22	(47)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343P8G																
		40° High Luminous intensity	Red	SLI-343URC	630	20	90	450	(710)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343UR				350												
			Orange	SLI-343DC	611	20	90	500	(710)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343DU				350												
			Yellow	SLI-343YC	591	20	90	350	(710)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343YY				300												
			Yellow Green	SLI-343MC	572	20	56	200	—	20	2.1	20	100	9	62	25	100*2	9	−25 to +80	−30 to +100
				SLI-343MG				180												
			Blue	New SLR343BN2T	470	20	470	1,000	2,200	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
			White	New SLR343WBN2PT	(x, y) (0.31, 0.31)	20	1,500	3,300	—	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
		40° Standard	Red	SLR-343VC	650	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-343VR			6	16	(45)											
			Orange	SLR-343DC	610	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-343DU			6	16	(45)											
			Yellow	SLR-343YC	585	10	6	16	(45)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-343YY			4	10	(28)											
			Yellow Green	SLR-343MC	563	10	9	25	(71)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-343MG			6	16	(45)											
			Green	SLR-343PC	555	10	2	6	(18)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-343PG																
				New SLR343EN4T	523	20	900	2,200	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
			Blue	New SLR343BN4T	468	20	300	680	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
		40° Low Current	Red	SLI-343URC (W)	630	20	36	200	(280)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343UR (W)				160												
			Orange	SLI-343DC (W)	611	20	56	300	(450)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343DU (W)				250												
			Yellow	SLI-343YC (W)	591	20	36	200	(280)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343YY (W)				160												
		85° Standard	Red	SLR-332VC	650	10	4	10	(28)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-332VR																
			Orange	SLR-332DC	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-332DU			4	10	(28)											
			Yellow	SLR-332YC	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-332YY			2	6	(18)											
			Yellow Green	SLR-332MC	563	10	6	16	(45)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-332MG																

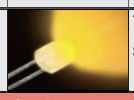
φ5 型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
					Dominant Wavelength λ_d/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
					Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
φ5 Circular type		10° High Luminous intensity	Red	SLI-580UT	630	20	2,000	5,000	(11,000)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Orange	SLI-580DT	611	20	1,350	5,000	(7,500)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow	SLI-580YT	591	20	1,350	5,000	(7,500)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow Green	SLA-580MT	563	20	200	470	(1,100)	20	2.3	20	10	4	75	25	60*1	4	−25 to +85	−30 to +100
			Green	New SLA580ENT	523	20	6,100	27,000	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
			Blue	New SLA580BNT	468	20	1,350	4,000	—	20	3.3	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
		20° High Luminous intensity	Red	SLI-570UT	630	20	900	3,000	(5,200)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
				SLI-570U2T			2,200	4,000	(10,000)											
			Orange	SLI-570DT	611	20	900	3,000	(5,200)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow	SLI-570YT	591	20	610	2,500	(3,600)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
				SLI-570Y2T			2,200	5,200	(10,000)		2.1									
			Yellow Green	SLA-570MT	563	20	200	470	(1,100)	20	2.3	20	10	4	75	25	60*1	4	−25 to +85	−30 to +100
		40° High Luminous intensity	Red	SLI-560UT	630	20	300	1,000	(1,650)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Orange	SLI-560DT	611	20	300	1,000	(1,650)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow	SLI-560YT	591	20	300	1,000	(1,650)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow Green	SLA-560MT	563	20	42	100	(240)	20	2.3	20	10	4	75	25	60*1	4	−25 to +85	−30 to +100
			Blue	New SLA560BN2T	470*3	20	1,000	2,200	4,700	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
			White	New SLA560WBN2PT	(x, y) (0.31, 0.31)	20	1,500	3,300	(6,800)	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
		40° Standard	Red	SLR-56VC	650	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-56VR			4	10	(28)											
			Orange	SLR-56DC	610	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-56DU			4	10	(28)											
			Yellow	SLR-56YC	585	10	9	25	(71)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-56YY			6	16	(45)											
			Yellow Green	SLR-56MC	563	10	14	40	(110)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-56MG			6	16	(45)											
			Green	New SLA560EN4T	525	20	1,350	3,000	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
			Blue	New SLA560BN4T	468	20	300	680	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100

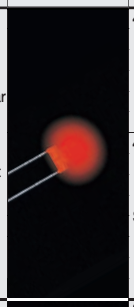
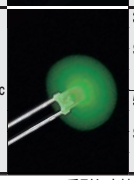
*1 Duty≤1/5，200Hz *2 Duty≤1/10，1kHz *3 主波长
*关于白色，用色度坐标(x, y)标记。

( )：参考值

椭圆型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
					Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
					Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
Oval type φ4		140° Standard	Red	SLI-430U2R	620*3	20	220	400	(680)	20	2.0	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100
			Orange	SLI-430DU	605*3	20	220	470	(680)	20	2.1	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100
			Yellow	SLI-430Y2U	590*3	20	330	500	(900)	20	2.1	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100
			Yellow Green	SLI-430MG	570*3	20	68	120	(220)	20	2.1	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100

特殊型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
					Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
					Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
φ3.2 Circular type Direct Mount 5mm Pitch type		40° Low Current	Red	SLI-325URC (W)*1	630	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	−25 to +85	−30 to +100
				SLI-325UR (W)*1				100												
			Orange	SLI-325DC (W)*1	611	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	−25 to +85	−30 to +100
				SLI-325DU (W)*1				100												
			Yellow	SLI-325YC (W)*1	591	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	−25 to +85	−30 to +100
				SLI-325YY (W)*1				100												
		40° Standard	Red	SLR-325VC*1	650	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-325VR*1			4	10	(28)											
			Orange	SLR-325DC*1	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-325DU*1			4	10	(28)											
			Yellow	SLR-325YC*1	585	10	6	16	(45)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-325YY*1			2	6	(18)											
			Yellow Green	SLR-325MC*1	563	10	9	25	(71)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-325MG*1			6	16	(45)											
φ3 Flat Disc type		35° Standard	Red	SLR-322VC	650	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Orange	SLR-322DC	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow	SLR-322YC	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow Green	SLR-322MC	563	10	9	25	(71)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
		50° Standard	Red	SLR-322VR	650	10	4	10	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Orange	SLR-322DU	610	10	2	6	(18)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow	SLR-322YY	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow Green	SLR-322MG	563	10	6	16	(45)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100

*SLI-325/SLR-325系列仅支持直型包装。
*1 Duty≤1/5，200Hz *2 Duty≤1/10，1kHz *3 主波长
( )：参考值

●品名构成说明〈插件LED〉

■元件发光颜色为蓝(B)、绿(E)、白(WB)以外颜色时

系列名称		封装类型		颜色		元件分类代码	特别记载	树脂颜色		包装规格		特别管理代码		光强等级	
S		3		V		8	R	C		3F					
L		4								T31					
I	—	3								T32					
SLA	1-Die Circular type High Luminous intensity LED Lamps	343	φ3 Circular type	V	Red	8	R	R	<Red>Diffused colored	3F	1-Die straight bulk			请参考规格书	
SLI	1-Die Circular type Low Current High Luminous intensity LED Lamps	332	φ3 Circular type	U	Red			U	<Orange>Diffused colored	T31	Refer to taping specification				
SLR	1-Die Circular type LED Lamp	56	φ5 Circular type	U2	Red			Y	<Yellow>Diffused colored	T32					
		560	φ5 Circular type	D	Orange			G	<Yellowish green> Diffused colored						
		570	φ5 Circular type	Y	Yellow			C	Transparent colored						
		580	φ5 Circular type	Y2	Yellow			T	Transparent colorless						
		430	Oval type φ4	M	Yellowish green										
		325	φ3.2 Circular type	P	Green										
		322	φ3 Flat disc type												

■元件发光颜色为蓝(B)、绿(E)、白(WB)时

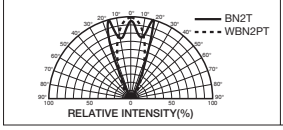
系列名称		封装类型		颜色		元件分类代码	特别记载	树脂颜色		色度(仅白色时) *"SLA560WBD2PT"不适用		包装规格		特别管理代码		光强等级	
S		3		W		2	P	T		2		3F					
L		4		B								T31					
R		3		N								T32					
SLA	1-Die Circular type High Luminous intensity LED Lamps	343	φ3 Circular type	BN	Blue	2	P	T	Transparent colorless	2		3F	1-Die straight bulk			请参考规格书	
SLR	1-Die Circular type LED Lamps	560	φ5 Circular type	EN	Green			W	Milky white			T31	Refer to specification				
		580	φ5 Circular type	WBN	White							T32					
												〈白色时〉					
												3	1-Die straight bulk				
												1	Refer to specification (same as T31)				
												2	Refer to specification (same as T32)				

插件LED

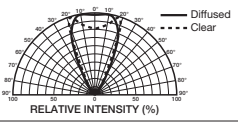
●指向性 (单位:deg)

〈φ3 型〉

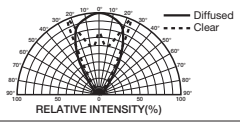
● SLR343BN2T/WBN2PT



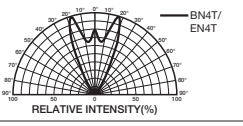
● SLI-343 series



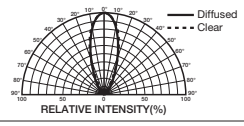
● SLI-343x8 series



● SLR343BN4T/EN4T

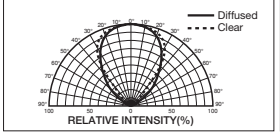


● SLR-343 series



〈φ3 型〉

● SLR-332 series

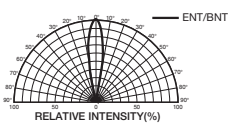


〈φ5 型〉

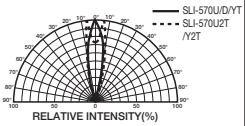
● SLI-580 series



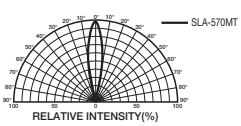
● SLA580ENT/BNT



● SLI-570 series

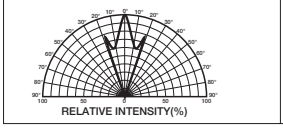


● SLA-570MT

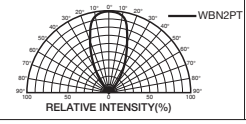


〈φ5 型〉

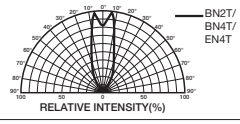
● SLI-560 series



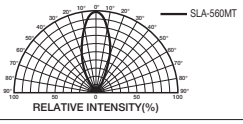
● SLA560WBN2PT



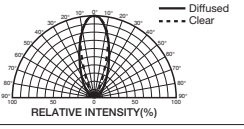
● SLA560BN2T/BN4T/EN4T



● SLA-560MT

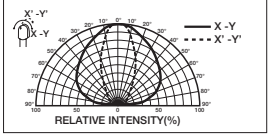


● SLR-56 series



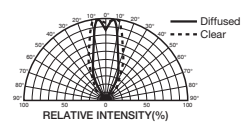
〈椭圆型〉

● SLI-430 series

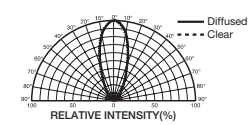


〈特殊型〉

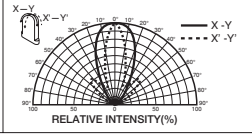
● SLI-325 series



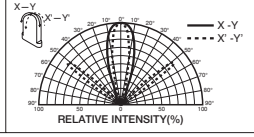
● SLR-325 series



● SLR-322 series (Diffused)



● SLR-322 series (Clear)

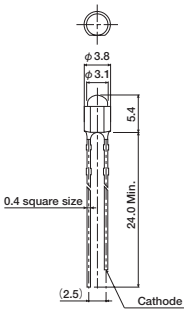


注 : 指向性只记载标准特性。上述以外类型请另行垂询。

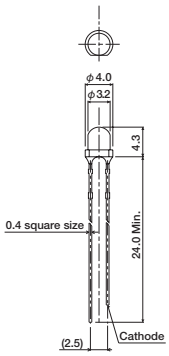
●外形尺寸图 (单位:mm)

〈φ3 型〉

● SLI-343 series
● SLR-343 series
● SLR343 series

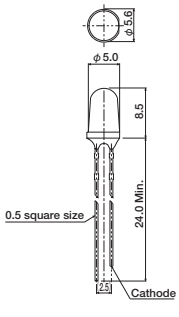


● SLR-332 series

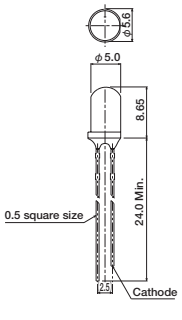


〈φ5 型〉

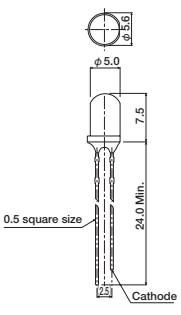
● SLI-580 series
● SLA580 series



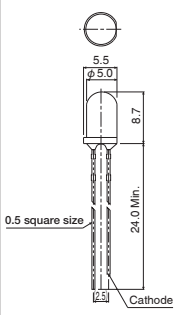
● SLI-570 series
● SLA-570 series



● SLI-560 series
● SLA-560 series
● SLA560 series

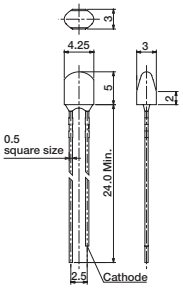


● SLR-56 series



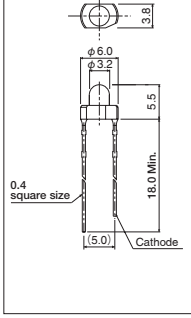
〈椭圆型〉

● SLI-430 series

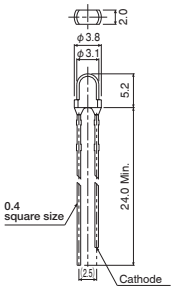


〈特殊型〉

● SLI-325 series
● SLR-325 series



● SLR-322 series



*详情请参考规格书。

LED显示器

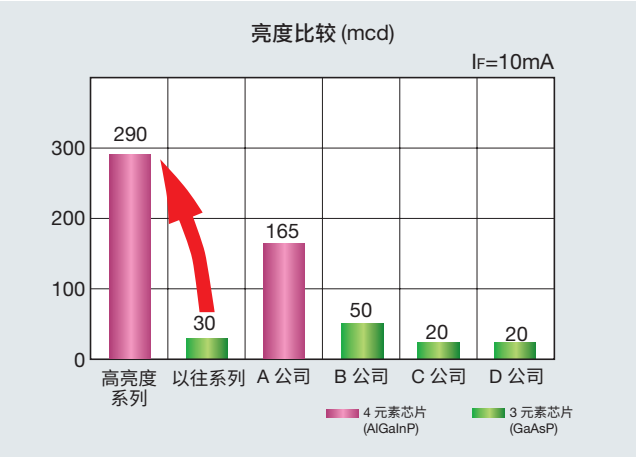
高亮度LED数字显示器 P.269
LED数字显示器 P.270
表面贴装LED数字显示器 P.270

高亮度LED数字显示器系列的特点

罗姆的高亮度LED数字显示器同时实现了高亮度和低功耗。

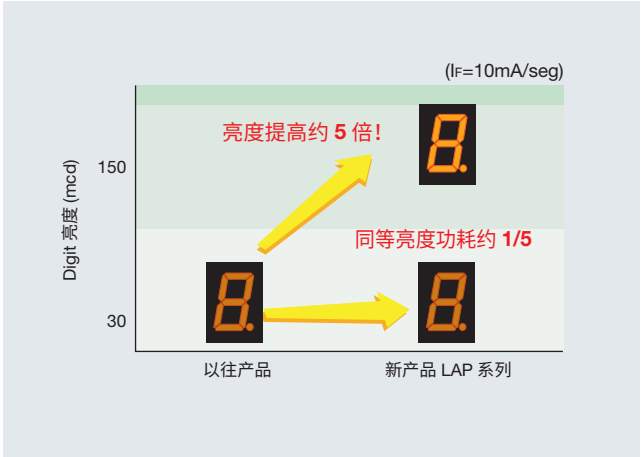
■ 高亮度

由于采用了4元素，亮度是以往数字显示器的大约10倍。
(橙色发光率)



■ 低功耗

电流是以往的1/5也能实现相同的亮度。为组件的省电化做出贡献。



高亮度LED数字显示器

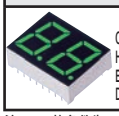
拥有高亮度、低功耗和高可靠性。

一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation PD (mW)	Forward Current IF (mA)	Peak Forward Current IFP* (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF Typ (V)	Forward Voltage VF IF (mA)	Reverse Current IR Max (μA)	Reverse Current IR VR (V)	Light Wavelength Peak λP Typ (nm)	Light Wavelength Half-wave Δλ Typ (nm)	Light Wavelength IF (mA)	Luminous Intensity/Digit Iv Min (mcd)	Luminous Intensity/Digit Iv Typ (mcd)	Luminous Intensity/Digit Iv IF (mA)
 Character Height: 8mm External Dimensions: (7x11)	LAP-301VB/VL	Red	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-301MB/ML	Green	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-301DB/DL	Orange	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	605	20	10	56	250	10
 Character Height: 10.16mm External Dimensions: (9.6x13)	LAP-401VD/VN	Red	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-401MD/MN	Green	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-401DD/DN	Orange	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	605	20	10	56	250	10
 Character Height: 14.6mm External Dimensions: (12.5x19)	LAP-601VB/VL	Red	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-601MB/ML	Green	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-601DB/DL	Orange	448	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	605	20	10	56	250	10

注：*IFP的条件为Duty≤1/5，Pulse width≤1ms

两位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation PD (mW)	Forward Current IF (mA)	Peak Forward Current IFP* (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF Typ (V)	Forward Voltage VF IF (mA)	Reverse Current IR Max (μA)	Reverse Current IR VR (V)	Light Wavelength Peak λP Typ (nm)	Light Wavelength Half-wave Δλ Typ (nm)	Light Wavelength IF (mA)	Luminous Intensity/Digit Iv Min (mcd)	Luminous Intensity/Digit Iv Typ (mcd)	Luminous Intensity/Digit Iv IF (mA)
 Character Height: 14.3mm External Dimensions: (25x19)	LBP-602VA2/VK2	Red	896	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LBP-602MA2/MK2	Green	896	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LBP-602DA2/DK2	Orange	896	20	60	5	−25 to +75	−30 to +85	1.9	10	100	3	605	20	10	56	250	10

注：*IFP的条件为Duty≤1/5，Pulse width≤1ms

LED数字显示器

一位数数字显示器系列备有8～14.6mm的字符高度和红、绿发光颜色。

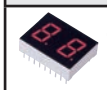
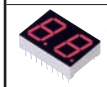
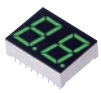
一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation PD (mW)	Forward Current IF (mA)	Peak Forward Current IFP* (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF		Reverse Current IR		Light Wavelength Peak λP Typ (nm)	Light Wavelength Half-wave Δλ Typ (nm)	Luminous Intensity/Digit Iv			
									Typ (V)	IF (mA)	Max (μA)	VR (V)			IF (mA)	Min (mcd)	Typ (mcd)	IF (mA)
 Character Height: 8mm External Dimensions: (7×11)	LA-301VB/VL	Red	320	15	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	3.6	10	10
	LA-301MB/ML	Green	480	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	3.6	10	10
	LA-301AB/AL	High luminous intensity Red	520	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-301EB/EL	High luminous intensity Orange	520	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	610	17	20	36	90	10
 Character Height: 10.16mm External Dimensions: (9.6×13)	LA-401VD/VN	Red	320	15	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LA-401MD/MN	Green	480	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	5.6	16	10
	LA-401AD/AN	High luminous intensity Red	520	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-401ED/EN	High luminous intensity Orange	520	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	610	17	20	36	90	10
 Character Height: 13mm External Dimensions: (12.5x17.5)	LA-501VD/VN	Red	480	20	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LA-501MD/MN	Green	480	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	5.6	16	10
 Character Height: 14.6mm External Dimensions: (12.5×19)	LA-601VB/VL	Red	480	20	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	5.6	14	10
	LA-601MB/ML	Green	480	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	9.0	22	10
	LA-601AB/AL	High luminous intensity Red	520	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-601EB/EL	High luminous intensity Orange	520	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	610	17	20	36	90	10

注1：*I_{FP}的条件为Duty≤1/5，Pulse width≤1 ms，高亮度和蓝色I_{FP}为Duty≤1/10，Pulse width≤0.1 ms

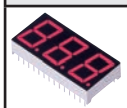
两位数数字显示器系列备有10.16～14.3mm的字符高度和红、绿发光颜色。

两位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation PD (mW)	Forward Current IF (mA)	Peak Forward Current IFP* (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF		Reverse Current IR		Light Wavelength Peak λP Typ (nm)	Light Wavelength Half-wave Δλ Typ (nm)	Luminous Intensity/Digit Iv			
									Typ (V)	IF (mA)	Max (μA)	VR (V)			IF (mA)	Min (mcd)	Typ (mcd)	IF (mA)
 Character Height: 10.16mm External Dimensions: (24×18)	LB-402VD/VN	Red	640	15	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-402MD/MN	Green	960	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
 Character Height: 13mm External Dimensions: (25x17.5)	LB-502VD/VN	Red	960	20	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-502MD/MN	Green	960	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
 Character Height: 14.3mm External Dimensions: (25×19)	LB-602VA2/VK2	Red	960	20	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-602MA2/MK2	Green	960	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
	LB-602AA2/AK2	High luminous intensity Red	1,040	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LB-602EA2/EK2	High luminous intensity Orange	1,040	25	50	5	−25 to +75	−30 to +85	2.05	20	100	3	610	17	20	36	90	10

注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1 ms，高亮度和蓝色I_{FP}为Duty≤1/10，Pulse width≤0.1 ms

三位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation PD (mW)	Forward Current IF (mA)	Peak Forward Current IFP* (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF		Reverse Current IR		Light Wavelength Peak λP Typ (nm)	Light Wavelength Half-wave Δλ Typ (nm)	Luminous Intensity/Digit Iv			
									Typ (V)	IF (mA)	Max (μA)	VR (V)			IF (mA)	Min (mcd)	Typ (mcd)	IF (mA)
 Character Height: 14.3mm External Dimensions: (37.5x18)	LB-603VF/VP	Red	960	15	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	5.6	16	10

注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms

表面贴装LED数字显示器

ROHM的LED数字显示器支持自动回流处理。

一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation PD (mW)	Forward Current IF (mA)	Peak Forward Current IFP* (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF		Reverse Current IR		Light Wavelength Peak λP Typ (nm)	Light Wavelength Half-wave Δλ Typ (nm)	Luminous Intensity/Digit Iv			
									Typ (V)	IF (mA)	Max (μA)	VR (V)			IF (mA)	Min (mcd)	Typ (mcd)	IF (mA)
 Character Height: 8mm External Dimensions: (6.8x11)	LF-3011VA/VK	Red	320	15	60	5	−25 to +75	−30 to +85	2.0	10	100	3	650	40	10	3.6	10	10
	LF-3011MA/MK	Green	480	20	60	5	−25 to +75	−30 to +85	2.1	10	100	3	563	40	10	3.6	10	10

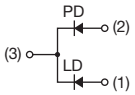
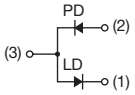
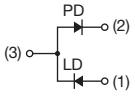
注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms

激光二极管

红光激光二极管	P.271	红外激光二极管	P.272
大功率红外激光二极管	P.273	红外表面发光激光二极管	P.273
品名构成说明、记号和定义	P.274	封装规格	P.275

激光二极管

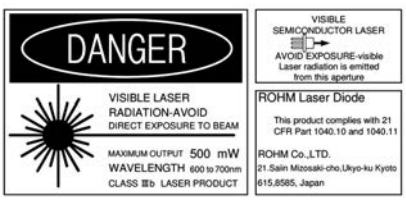
红光激光二极管

Part No.	Wavelength λP (nm)	Absolute Maximum Ratings (Tc=25°C)			Electrical and Optical Characteristics (Tc=25°C)							Po (mW)	Package	Equivalent Circuit
		Po (mW)	VR (V)	Topr Max (°C)	ITH (mA)	Iop (mA)	η (W/A)	Vop (V)	Im (mA)	θ⊥ (deg)	θ// (deg)			
RLD65MZT7	655	7	2	70	20	30	0.70	2.3	0.24	27.0	8.0	5	 ϕ5.6mm	
RLD63NPC5 (Pure red)	635	6	2	40	24	33	0.55	2.2	0.18	32.0	8.0	5	 ϕ5.6mm (Open)	
RLD63NPC6 (Pure red)	638	12	2	50	28	43	0.70	2.3	0.15	32.0	8.0	10	 ϕ5.6mm (Open)	
RLD63NPC7 (Pure red)	638	17	2	50	32	57	0.60	2.2	0.16	30.0	8.0	15	 ϕ5.6mm (Open)	
RLD63NPC8 (Pure red)	638	24	2	50	32	65	0.60	2.25	0.20	30.0	8.0	20	 ϕ5.6mm (Open)	
RLD65NZX1 (Higher temp.)	663	10	2	80	15	24	0.85	2.3	0.30	27.0	9.0	7	 ϕ5.6mm	
RLD65NZX2 (Higher ESD)	658	7	2	70	25	33	0.60	2.3	0.20	28.0	8.5	5	 ϕ5.6mm	
RLD63PZCA (Pure red)	638	7	2	50	28	33	0.80	2.2	0.08	32.0	8.0	5	 ϕ5.6mm	
RLD65PZX2 (Higher ESD)	658	7	2	70	25	33	0.60	2.3	0.20	28.0	8.5	5	 ϕ5.6mm	
RLD65PZX3 (Higher ESD)	658	12	2	70	25	42	0.60	2.3	0.30	28.0	8.5	10	 ϕ5.6mm	

注：除另行标注外，所有电气及光学特性皆为标准值。

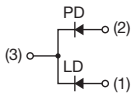
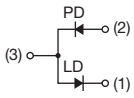
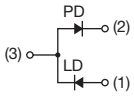
●关于开封品

开封产品(包装MARK为P的产品)的特性和可靠性可能因外部环境而恶化。
对于包含碳粉、人为异物、香烟烟雾在内的异物、离子导致的腐蚀、粘接剂及助焊剂的挥发性成分带来的影响、冷凝、光镊子效应等，请采取足够完善的解决措施。
此外，请注意不要触碰激光芯片发光部等组成器件。

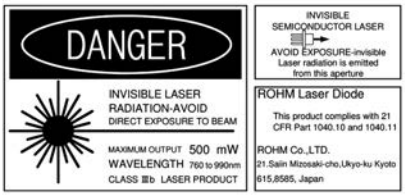


激光二极管

红外激光二极管

Part No.	Wavelength λ_P (nm)	Absolute Maximum Ratings (T_C=25°C)			Electrical and Optical Characteristics (T_C=25°C)							P_O (mW)	Package	Equivalent Circuit
		P_O (mW)	V_R (V)	Topr Max (°C)	I_{TH} (mA)	Iop (mA)	η (W/A)	Vop (V)	Im (mA)	θ⊥ (deg)	θ// (deg)			
RLD78MZA6	790	4.5	2	70	25	35	0.35	1.9	0.15	37.0	11.0	3	 ϕ5.6mm	
RLD78MZM7	792	20	2	60	11	33	0.65	1.8	0.50	24.0	8.5	15	 ϕ5.6mm	
RLD78NZM5	793	10	2	60	10	20	0.55	1.8	1.15	28.0	9.0	6	 ϕ5.6mm	
RLD78NZM7	792	20	2	60	11	33	0.65	1.8	0.90	24.0	8.5	15	 ϕ5.6mm	
RLD82NZJ1	822	220	2	60	50	255	0.95	2.4	0.30	17.0	9.5	200	 ϕ5.6mm	
RLD84NZJ2	842	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD85NZJ4	852	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD94NZJ7	942	220	2	60	40	300	0.75	2.4	1.00	17.0	9.5	200	 ϕ5.6mm	
RLD78PZM7	792	20	2	60	11	33	0.65	1.8	0.65	24.0	8.5	15	 ϕ5.6mm	
RLD82PZJ1	822	220	2	60	50	255	0.95	2.4	0.30	17.0	9.5	200	 ϕ5.6mm	
RLD84PZJ2	842	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD85PZJ4	852	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD94PZJ5	942	285	2	65	55	325	0.75	2.2	0.90	30.0	35.0	200	 ϕ5.6mm	

注：除另行标注外，所有电气及光学特性皆为标准值。



大功率红外激光二极管

Part No.	Wavelength λP (nm)	Absolute Maximum Ratings (Tc=25°C)			Electrical and Optical Characteristics (Tc=25°C)							Measurement pulse condition	Package	Equivalent Circuit
		Po (W)	IF (A)	Topr Max (°C)	Po (W)	ITH (A)	Iop (A)	Vop (V)	θ⊥ (deg)	θ// (deg)	Emission area (μm×μm)			
☆RLD90QZWA	905	17	6	85	15	0.3	5	13	20	14	35×10	Pulse width 50ns duty 0.05%	ϕ5.6mm	(2) (3) LD (1)
RLD90QZWJ		25	9		25	0.4	9	15	20	14	50×10		ϕ5.6mm	
☆RLD90QZWB		30	11		25	0.4	9	13	25	14	50×10		ϕ5.6mm	
RLD90QZW5		25	9		25	0.4	9	14	25	12	70×10		ϕ5.6mm	
☆RLD90QZWC		30	11		25	0.4	9	12	25	13	70×10		ϕ5.6mm	
RLD90QZWD		40	13		35	0.4	12	11	25	13	100×10		ϕ5.6mm	
RLD90QZW3		90	30		75	0.9	27	16	25	10	225×10		ϕ5.6mm	
☆RLD90QZW8		145	50		120	1	40	16	25	10	270×10		ϕ5.6mm	

注：除另行标注外，所有电气及光学特性皆为标准值。

☆：开发中

红外表面发光激光二极管*

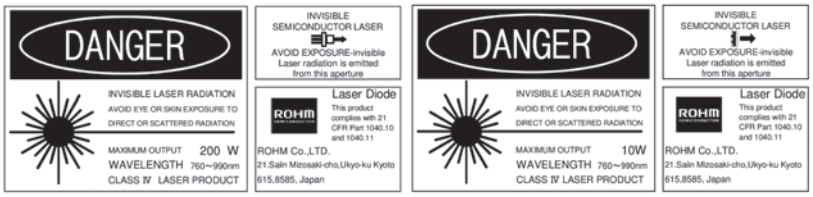
Part No.	Wavelength λP (nm)	Electrical and Optical Characteristics (Tc=25°C)							Emission area (mm×mm)	Measurement pulse condition	Package	Equivalent Circuit
		Po (mW)	IF (mA)	VF (V)	ITH (mA)	PCE (%)	θ [FWHM] (deg)	η (W/A)				
☆RLD94SEQF	940	6	9	1.9	2	33	13	0.85	–	Pulse width 800μs 1shot		(2) LD (1)
☆RLD94SEQP	940	7	9	1.9	2	40	20	1	–	Pulse width 800μs 1shot		
☆RLD94SAQ6	940	200	300	2	70	33	13	0.85	0.41×0.23	Pulse width 800μs 1shot	t*=0.77	(2) LD (1)
☆RLD94SAQ8	940	2,000	3,000	2	750	40	–00x: 20 –10x: 60×45 –20x: 72×55 –30x: 90×69 –40x: 110×85	1	1.10×0.82	Pulse width 400μs 1shot	–00x: t*=0.77 other: t*= 0.97	

注：除另行标注外，所有电气及光学特性皆为标准值。
*也可出售元件。详细内容请咨询销售人员。

☆：开发中

●关于安全性

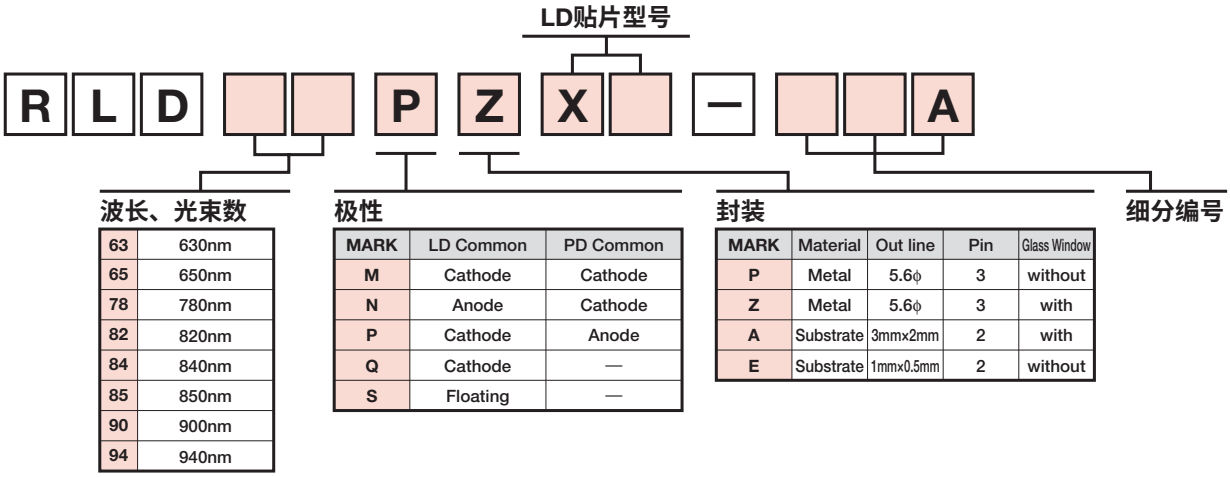
本产品旨在用于普通的电子设备或装置。
激光二极管发出的光对人体有害，因此不要直视或用镜片、硬化纸板等观看发光部。



如果需要在要求极高可靠性的、因产品故障或误操作会直接引起人身安全的机器或装置中使用时，请事先向ROHM销售代表咨询。

激光二极管

●品名构成说明



63	630nm
65	650nm
78	780nm
82	820nm
84	840nm
85	850nm
90	900nm
94	940nm

MARK	LD Common	PD Common
M	Cathode	Cathode
N	Anode	Cathode
P	Cathode	Anode
Q	Cathode	—
S	Floating	—

MARK	Material	Out line	Pin	Glass Window
P	Metal	5.6ϕ	3	without
Z	Metal	5.6ϕ	3	with
A	Substrate	3mm×2mm	2	with
E	Substrate	1mm×0.5mm	2	without

●记号和定义

■绝对最大额定值

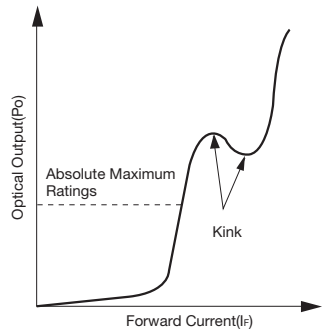
在任何外部条件下，就是瞬间也不得超过的数值即绝对最大额定值。
以外壳温度T_C＝25°C时的数值作出规定。

Parameter	Symbol	Definition
Optical Output	P_O	Maximum allowable optical output during continuous or pulse operation. No kinks will appear in the output vs. forward current curve up to this output value. (Fig.1)
Reverse Voltage	V_R	The maximum allowable voltage when a reverse bias is applied to the device. Lasers and photo diodes are rated separately.
Operating Temperature	Topr	Allowed ambient temperature range when the device is in operation. Delined to be the case temperature of the device.
Storage Temperature	Tstg	Allowed temperature range when the device is being stored.

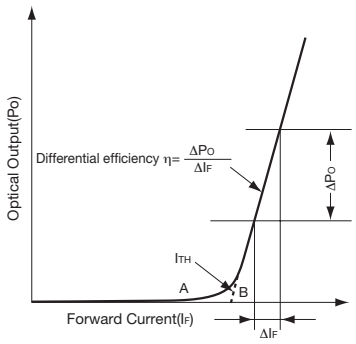
■电气及光学特性

Item	Symbol	Definition
Threshold Current	I_{TH}	In Fig.2, A is the spontaneous emission range and B is the stimulated emission range. The threshold current is the current at which laser emission begins.
Operating Current	I_{OP}	The forward current required to generate the specified optical output.
Operating Voltage	V_{OP}	The forward voltage required to generate the specified optical output.
Differential Efficiency	η	The average increase in the output per unit of drive current. In the laser emission range, this is the slope of the linear optical output vs. forward current curve. (Fig.2)
Monitor Current	I_m	When the specified optical output is generated, this is the output current of the photodiode when a specified reverse voltage is applied to the monitor photodiode.
Parallel Divergence Angle Perpendicular Divergence Angle	θ// θ⊥	Light emitted from the laser spreads as shown in Fig.3. The result of measurements of this spread in the parallel (x) and perpendicular (y) directions with respect to the junction surface is shown in Fig.3. The widths of the spread at the points where the strength drops to 1/2 the peak strength (half value full angles) are defined as angles and called θ//and θ⊥. (Fig.4)
Parallel Deviation Angle Perpendicular Deviation Angle	Δϕ// Δϕ⊥	These values express the deviation of the optical axis with respect to the reference plane, and are defined for the parallel and perpendicular spread angles (Fig.4) to be (a - b)/2 (Fig.5).
Emission Point Accuracy	ΔX, ΔY, ΔZ	This indicates the amount of deviation of the emission point.ΔX and ΔY indicate deviation from the center of the package, and ΔZ indicates deviation from the reference plane. (Fig.6)
Peak Emission Wavelength	λ	Peak emission wavelength when generating the specified output. As shown in Fig.7, the emission spectrum has both a single mode and a multimode. In the multimode, the wavelength is delined as the wavelength with the highest intensity.
Power Conversion Efficiency	PCE	This indicates the ratio of optical output to input electric power.

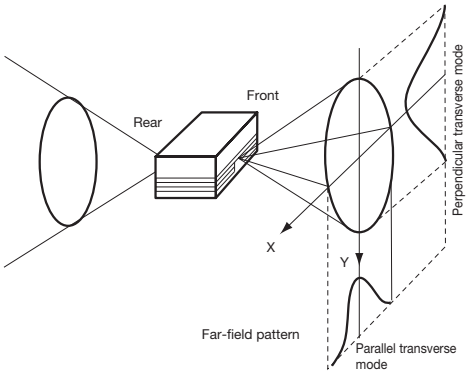
■Fig.1 光输出-正向电流特性



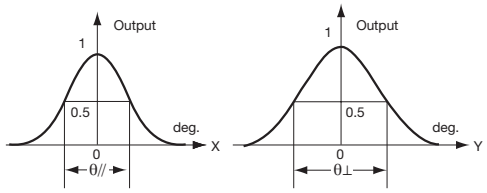
■Fig.2 光输出-正向电流特性



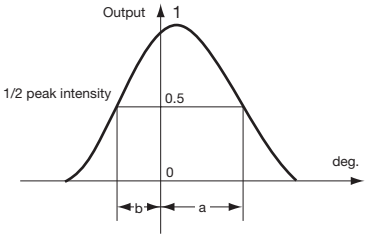
■Fig.3 辐射特性



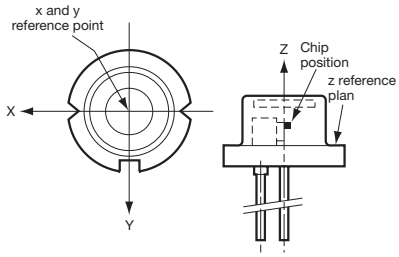
■Fig.4 辐射特性



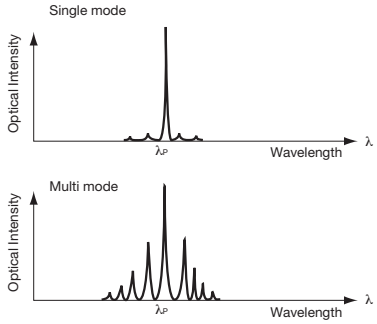
■Fig.5 光轴倾角



■Fig.6 发光点位置



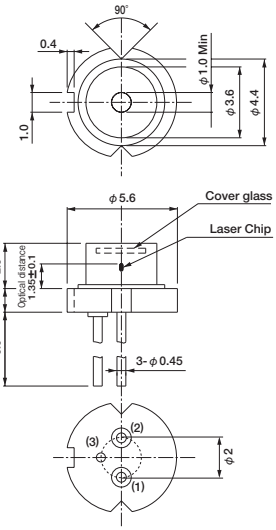
■Fig.7 振荡光谱特性



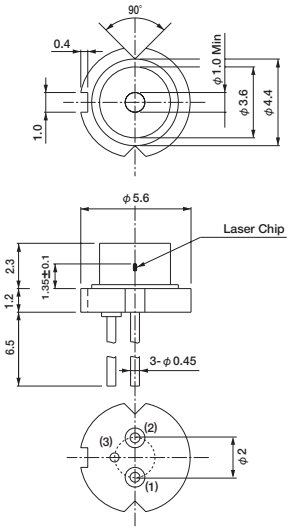
封装规格

●外形尺寸图 (单位:mm)

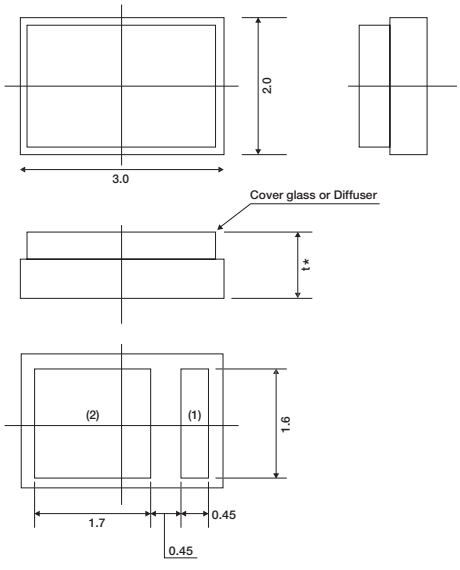
ϕ5.6mm



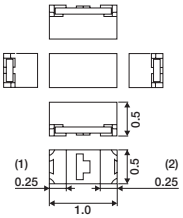
ϕ5.6mm (Open)



Infrared VCSEL
RLD94SAQ6/RLD94SAQ8



Infrared VCSEL
RLD94SEQF/RLD94SEQP



*根据品名有所不同，使用前请务必确认规格书。

光学传感器

透过型光电断路器	P.276	反射型光电传感器(光反射器)	P.277
红外发光二极管	P.278	光电晶体管	P.278
照度・接近一体型传感器	P.278	封装	P.278

透过型光电断路器

线性光电晶体管输出

Package	Exterior	Part No.	Output type	Standard Characteristics								
				Detection Groove Width (mm)	Slit Width (mm)	I_C (mA)	V_{CE} (V)	I_F (mA)	tr, tf (μs)	Packing Specifications	Positioning	Remarks
Surface Mount type		New RPI-0128	Phototransistor	1.2	0.2	1.0 Min 5.0 Max	5	5	10	Taping		Ultra-Compact
		RPI-0125		1.2	0.3	0.45 Min 4.95 Max	5	20	10			Ultra-Compact
		RPI-0226		2.0	0.3	0.1 Min	5	5	50		✓	Compact
		RPI-0352E		3.0	0.4	0.18 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency
		RPI-0451E		4.5	0.5	0.16 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency
Lead type		RPI-122		0.8	0.25	0.18 Min 1.08 Max	0.7	3	10	Bulk		Ultra-Compact
		RPI-121		0.8	0.4	0.7 Min	5	20	10			Ultra-Compact
		RPI-125		1.2	0.3	0.45 Min 4.95 Max	5	20	10			Ultra-Compact
		RPI-221		2.3	0.4	0.2 Min	5	20	10			
		RPI-222		2.0	0.2	0.18 Min 0.95 Max	5	10	10			
		New RPI-222G		2.0	0.2	0.18 Min 0.95 Max	5	10	10			Halogen free
		RPI-243		2.0	0.4	0.5 Min	5	20	10			
		RPI-246		2.0	0.2	0.35 Min 1.2 Max	5	20	10			
		RPI-352		3.0	0.4	0.2 Min	5	20	10		✓	Wide Gap
		RPI-441C1		4.0	0.5	0.2 Min	5	20	10		✓	Wide Gap
		RPI-441C1E		4.0	0.5	0.2 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency

反射型光电传感器

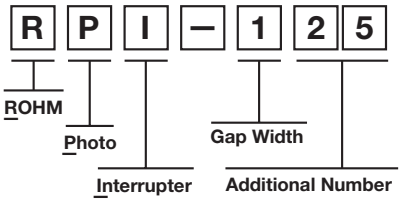
光反射器型

Package	Exterior	Part No.	Output type	Standard Characteristics								
				Focal Length (mm)	LED λ_P (nm)	PTr λ_P (nm)	I_C (mA)	V_{CE} (V)	I_F (mA)	tr, tf (μs)	Packing Specifications	Remarks
Lead type		RPR-220	Phototransistor	6.0	940	800	0.08 Min 0.8 Max	2	10	10	Bulk	
		RPR-220UC30N		6.0	630	800	0.08 Min 0.8 Max	5	10	10	Stick	Emitting Color: Red

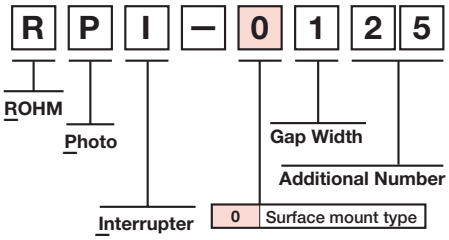
●品名构成说明

透过型

● 7位

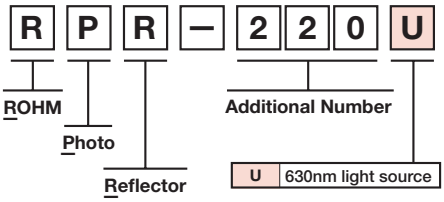


● 8位

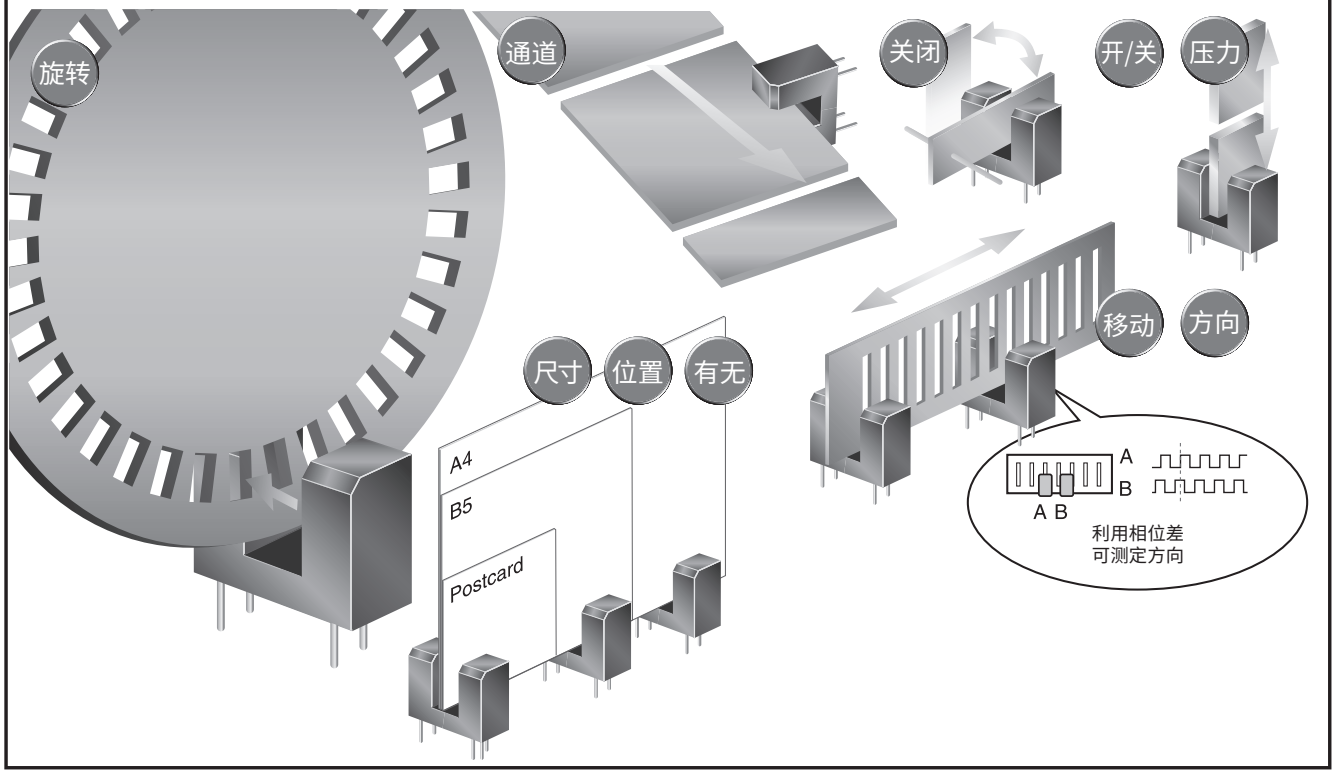


反射型

● 7位



任何位移的探测



红外发光二极管

适用于遥控器送信机、光通信等，拥有丰富的产品系列。

红外发光二极管

Package	Exterior	Part No.	Features	Absolute Maximum Rating	Standard Characteristics						
				I_F (mA)	I_E (mW/sr)	I_F (mA)	V_F (V)	I_F (mA)	λ_P (nm)	tr, tf (μs)	θ1/2 (deg)
φ3 resin	 SIR-34ST3F	SIR-34ST3F	Optimized for remote controls	100	10.5	50	1.3	100	950	1	27
		SIR-341ST3F	Compact, high power	75	18.1	50	1.3	50	940	1	16
φ5 resin	 SIR-56ST3F	SIR-56ST3F	Optimized for remote controls	100	15	50	1.3	100	950	1	15
		SIR-563ST3F	High output, Optimized for remote controls	100	21	50	1.34	50	940	1	15

光电晶体管

罗姆的光电晶体管多用于高可靠性、高输出的小型精密仪器，拥有φ3mm的正面发光型和侧面发光型。

光电晶体管

Package	Exterior	Part No.	Feature	Visible Light Filter	Visible Light Filter		Standard Characteristics					
					V_{CEO} (V)	P_C Max (mW)	I_{CEO} Max (μA)	V_{CE} (V)	I_C (mA)	λ_P (nm)	tr, tf (μs)	θ1/2 (deg)
φ3 resin	 RPT-38PB3F	RPT-34PB3F	Visible light filter	✓	32	150	0.5	10	2.0 Min	800	10	36
		RPT-37PB3F	Visible light filter, Polarity discrimination	✓	32	150	0.5	10	2.0 Min	800	10	36
		RPT-38PB3F	Visible light filter	✓	32	150	0.5	10	2.0 Min	800	10	36

●品名构成说明

S I R – 3 4 1 S T 3 F

系列名称	附加编号	输出形态	封装颜色	引脚形状
SIR φ3 and φ5 types lamp infrared LED		S Infrared LED	T Clear	3F Straight

R P T – 3 4 □ P B 3 F

系列名称	附加编号	输出形态	封装颜色	引脚形状
RPT φ3 type Photo Detector		P Phototransistor	B Colored	3F Straight

照度・接近一体型传感器

照度・接近一体型传感器

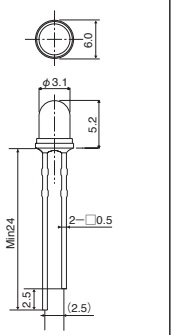
Package	Exterior	Part No.	Features	Visible Light Filter	Interface	Absolute Maximum Rating		Standard Characteristics	
						V_{DD} Max (V)	Vleda Max (V)	PS Sensor Out (Count)	λ_P (nm)
Surface Mount type		RPR-0521RS	Proximity Sensor and Ambient Light Sensor	Built-in Noise Cancellation Function	I²C	4.5	7	80	940

封装

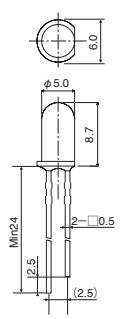
●外形尺寸图 (单位：mm)

〈红外线发光二极管〉

●SIR-34ST3F/341ST3F

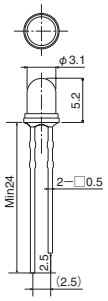


●SIR-56ST3F/563ST3F

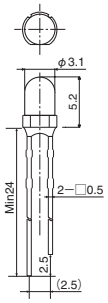


〈光电晶体管〉

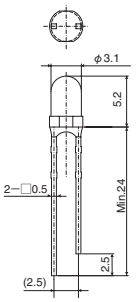
●RPT-34PB3F



●RPT-37PB3F

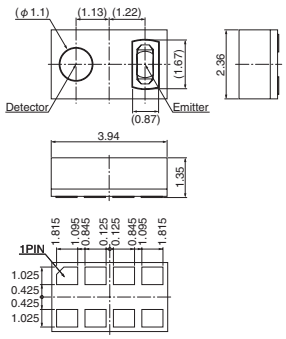


●RPT-38PB3F



〈照度・接近一体型传感器〉

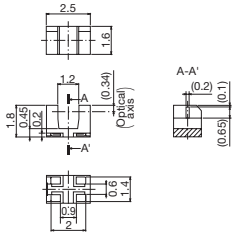
●RPR-0521RS



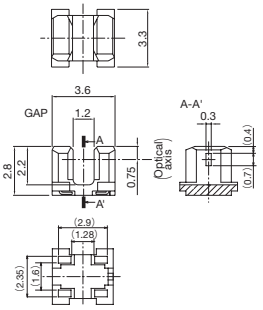
●外形尺寸图 (单位：mm)

〈光电断路器〉

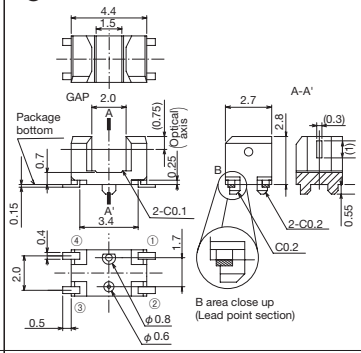
●RPI-0128



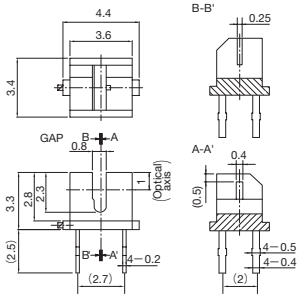
●RPI-0125



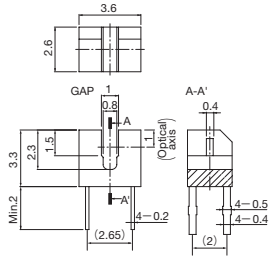
●RPI-0226



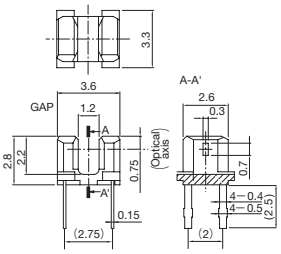
●RPI-122



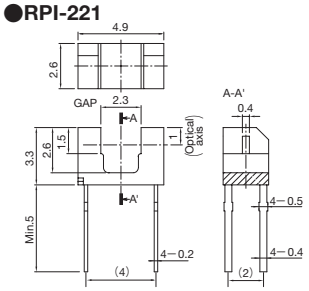
●RPI-121



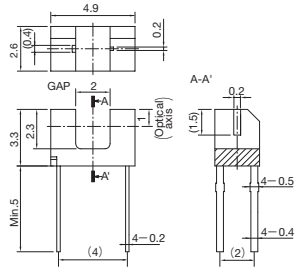
●RPI-125



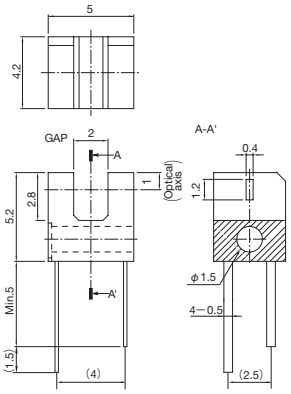
●RPI-221



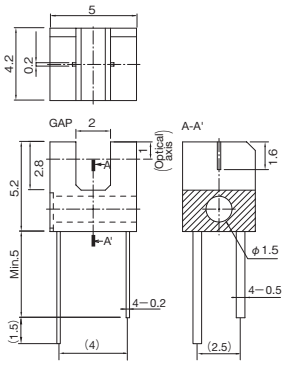
●RPI-222, RPI-222G



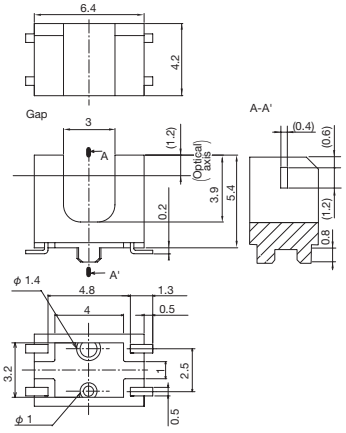
●RPI-243



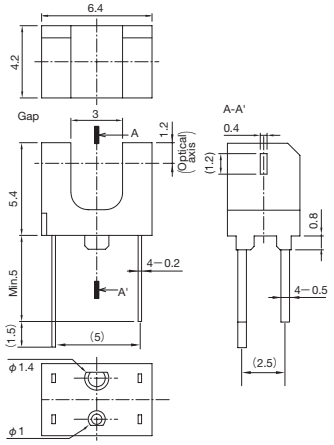
●RPI-246



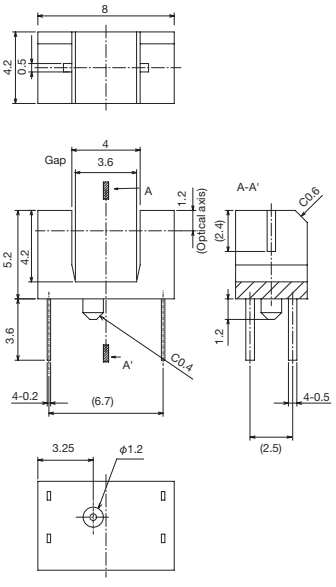
●RPI-0352E



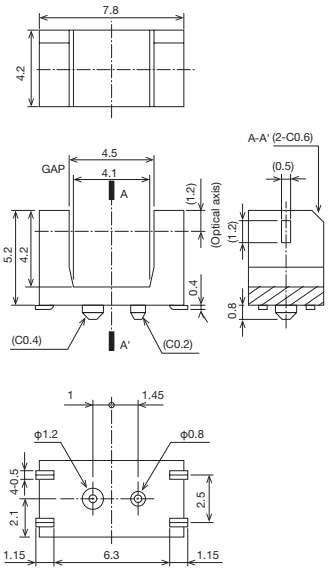
●RPI-352



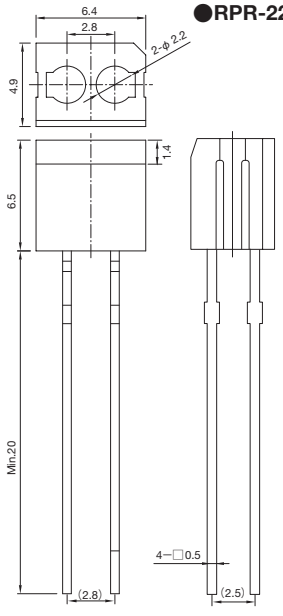
●RPI-441C1, RPI-441C1E



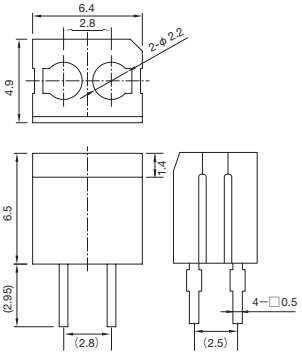
●RPI-0451E



●RPR-220



●RPR-220UC30N



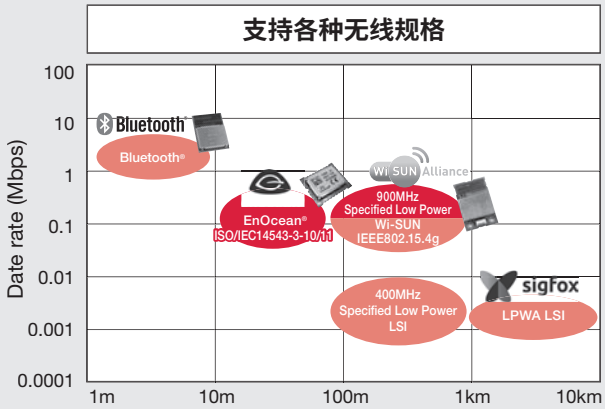
无线通信模块

关于罗姆的无线通信技术	P.280	Wi-SUN通信模块(特定小功率通信模块)	P.280
Bluetooth® 模块	P.281	EnOcean® 通信模块	P.281
13.56MHz(NFC)无线充电模块	P.281		

关于罗姆的无线通信技术

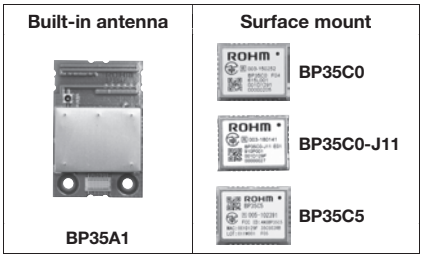
■无线通信

罗姆集团进行广泛的近距离无线通信元器件研发



Wi-SUN 通信模块 (特定小功率通信模块)

- 920MHz频段 特定小功率无线模块
- 先进接收灵敏度
- 内置天线无需高频设计
- 发送功率已调整完毕
- MAC地址已写入完毕
- 已获得日本电波法认证
- 使用LAPIS Technology生产的LSI



Wi-SUN通信模块(特定小功率通信模块)

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Host I/F	Compatible Standards	Radio law Certification	Dimensions (mm)	Pakcage
BP35A1	2.7 to 3.6 (Single power)	−20 to +80	UART	Wi-SUN Route-B	TELEC	22.0×33.5×3.9	Connector joint type 0.5mm pitch, 20pin
BP35C0	2.6 to 3.6 (Single power)	−30 to +85	UART	Wi-SUN Route-B/HAN	TELEC	15.0×19.0×2.6	SMD 1.27mm pitch, 28pin
BP35C0-J11	2.6 to 3.6 (Single power)	−30 to +85	UART	Wi-SUN Route-B/HAN/ Enhanced HAN	TELEC	15.0×19.0×2.6	SMD 1.27mm pitch, 28pin
BP35C5	2.6 to 3.6 (Single power)	−30 to +85	UART	Wi-SUN FAN	TELEC/FCC	15.0×19.0×2.6	SMD 1.27mm pitch, 30pin

Bluetooth® 模块

- 超低消耗电流，适用于需要延长硬币电池和纽扣电池寿命的设备
- 支持Bluetooth® low energy单通道的模块
- 内置图形天线，出货时已调整无线特性
- 已通过的电波法认证：日本电波法认证、FCC、ISED(IC)、CE
- 已获得Bluetooth认证



MK71511-NNN

Bluetooth® low energy模块 (LAPIS Technology产品)

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Host I/F	Bluetooth Certification	Radio law Certification	Module Specification	Include Flash/RAM	Include Crystal Oscillator	Include Antenna	Dimension (mm)	Package
MK71511-NNN	1.7 to 3.6	−40 to +85	UART SPI	Ver5.2 (Single mode) QDID: 146733 (RF-PHY Component)	TELEC/FCC/ ISED/CE	Role: Master/Slave Application: Blank	Flash: 192KB RAM: 24KB	32MHz 32.768kHz	Pattern	9.7×13.4×2.0	M-FLGA54-9.7X13.4-0.80-9Y
MK71511A-NNN								32MHz			M-FLGA54-9.7X13.4-0.80-9Y
MK71521-NNN				Ver5.2 (Single mode) QDID: 146740 (RF-PHY Component)			Flash: 512KB RAM: 64KB	32MHz 32.768kHz			M-FLGA54-9.7X13.4-0.80-9Y
MK71521A-NNN								32MHz			M-FLGA54-9.7X13.4-0.80-9Y

Bluetooth®是Bluetooth SIG的注册商标。

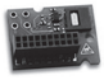
EnOcean® 通信模块

EnOcean®通信模块是利用环境发电的无需电池的无线通信模块。

特点
- 支持EnOcean®通信标准(ISO/IEC 14543-3-10/11)
- 内置天线无需高频设计
- 已获得日本电波法认证

* 本产品已获得日本电波法认证，可作为928MHz频带特定小功率无线电台使用。

EnOcean®通信模块、元器件

Frequency Band	Use Target Area	Products								
		Energy converter for motion energy harvesting (for the switch module)	Transmitter module (for switch module)	Push button multi-channel switch module	Energy harvesting wireless transceiver module	Programmable transceiver module	Energy harvesting magnet contact module	Energy harvesting temperature sensor module	Humidity sensor module	Receiver USB module
										
928MHz	Japan	New ECO 200/ ECO 260	PTM 535J	PTM 215J	STM 400J	New TCM 410J/ TCM 515J	STM 429J	STM 431J	HSM 100	New USB 400J/ USB 500J
868MHz	Europe·China	New ECO 200/ ECO 260	PTM 535	PTM 210/ PTM 215	STM 300	TCM 310	STM 329	STM 331	HSM 100	USB 300
902MHz	North America	New ECO 200/ ECO 260	PTM 535U	PTM 215U	STM 300U	TCM 310U	STM 320U	STM 331U	HSM 100	USB 500U
921MHz	Asia	New ECO 200/ ECO 260	–	–	–	–	–	STM 431T	HSM 100	USB 500T

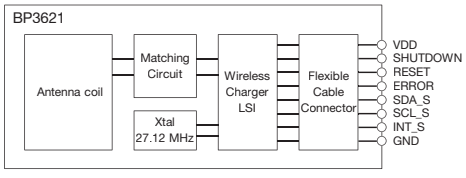
*EnOcean®是EnOcean GmbH的注册商标。

13.56MHz(NFC)无线充电模块

13.56MHz无线充电模块是搭载天线的电路板一体化模块。可大幅减少天线设计和匹配调整的开发工时，轻松实现无线充电功能。有助于实现可穿戴式设备及IoT设备等所需的小型、无连接器、防水防尘等框体的设计。

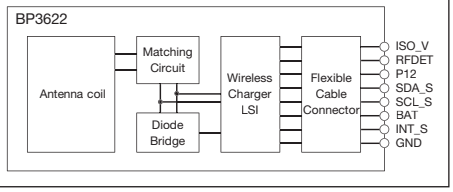
BP3621
(输电模块)





BP3622
(受电模块)





大范围供电型13.56MHz无线充电输电模块

Part No.	Transmitter/ Receiver	Module type	Module size (mm)	Weight (g)	Supply Voltage (V)	Output Power (Max) (mW)	Feeding Distance (d) (mm)	Operating Temperature (°C)	Interface
BP3621	Power Transmitter	Wide Range type	35.0×26.0×1.5	0.80	4.5 to 5.5	–	10	−10 to +50	8pin, 0.5mm pitch, FPC connector

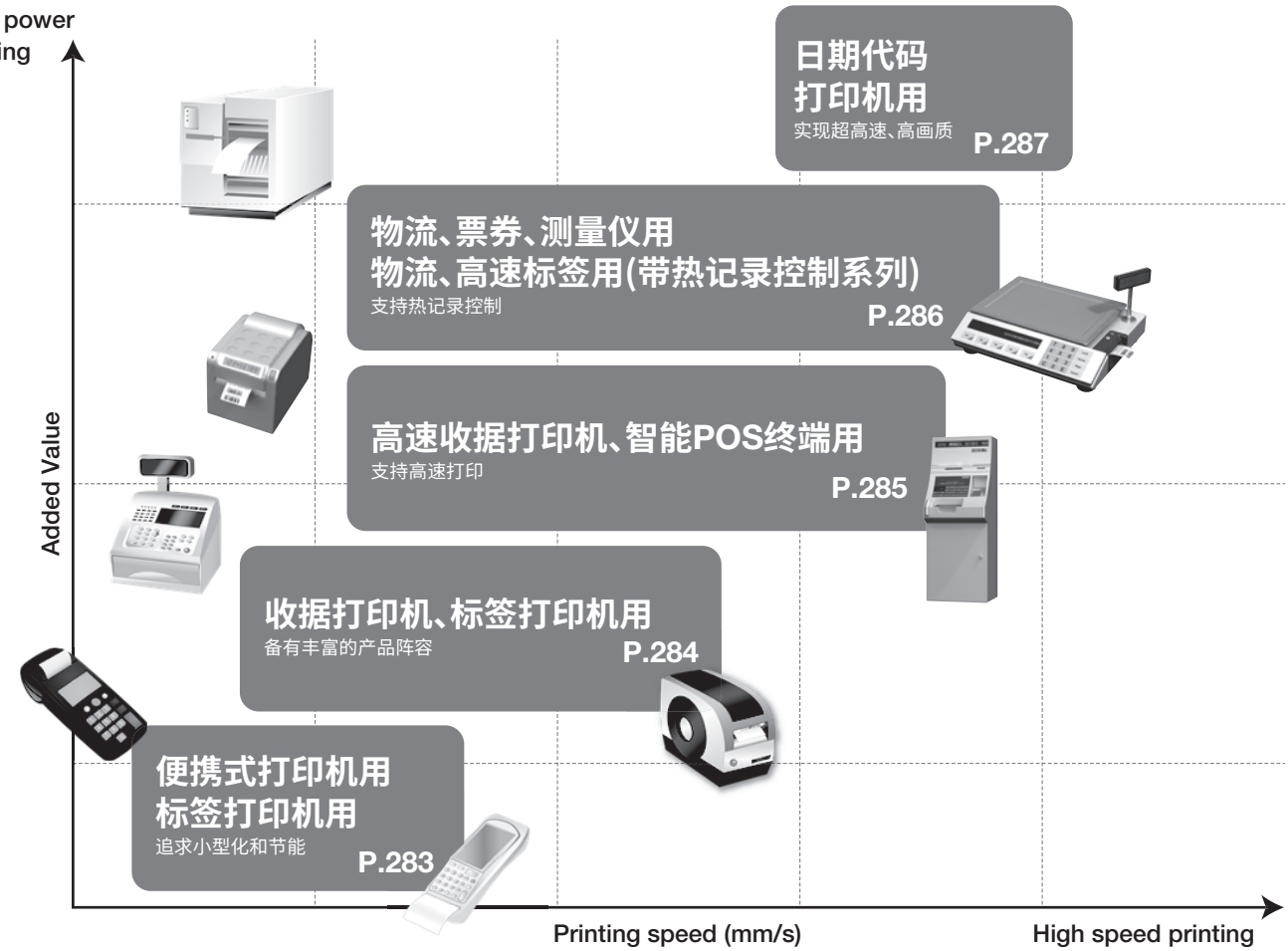
大范围供电型13.56MHz无线充电受电模块

Part No.	Transmitter/ Receiver	Module type	Module size (mm)	Weight (g)	Supply Voltage (V)	Output Power (Max) (mW)	Feeding Distance (d) (mm)	Operating Temperature (°C)	Interface
BP3622	Power Receiver	Wide Range type	24.0×17.0×1.5	0.38	–	200	10	−10 to +50	8pin, 0.5mm pitch, FPC connector

热敏打印头

选型指南	P.282	品名构成说明	P.282
便携式打印机用系列	P.283	标签打印机用系列	P.283
收据打印机、标签打印机用系列	P.284	高速收据打印机、智能POS终端用系列	P.285
物流、票券、测量仪用系列	P.286	物流、高速标签用系列(带热记录控制)	P.286
日期代码打印机用系列	P.287		

选型指南



产品种类丰富，可针对打印宽度、打印密度、接口等各种要求提供方案。
对于产品阵容中没有的产品，请咨询罗姆的销售窗口。

品名构成说明

型号总位数为13位时

K	D	2	0	0	4	–	D	1	F	W	0	0	A
打印头结构		打字密度		打字宽度			系列选项						识别编号

例)

打印头结构	
KA/KR	Flat structure, Full glaze
KD	Flat structure, Partial glaze
SH	Near-edge sturucture, Partial glaze

etc.

例)

打字密度	
10	100dpi
15	150dpi
18	180dpi
20	203dpi
30	300dpi
36	360dpi
60	600dpi

etc.

例)

打字宽度	
01	1inch
02	2inch
03	3inch
04	4inch
05	5inch
06	6inch
08	8inch
10	10inch

例)

系列选项	
DA	Both side type connectors with Heatsink
D1	Both side type connectors without Heatsink

etc.

型号总位数为11位时

K	D	2	0	0	4	–	D	F	1	0	A
打印头结构		打字密度		打字宽度			系列选项				识别编号

例)

打印头结构	
KA/KR	Flat structure, Full glaze
KD	Flat structure, Partial glaze
SH	Near-edge sturucture, Partial glaze

etc.

例)

打字密度	
10	100dpi
15	150dpi
18	180dpi
20	203dpi
30	300dpi
36	360dpi
60	600dpi

etc.

例)

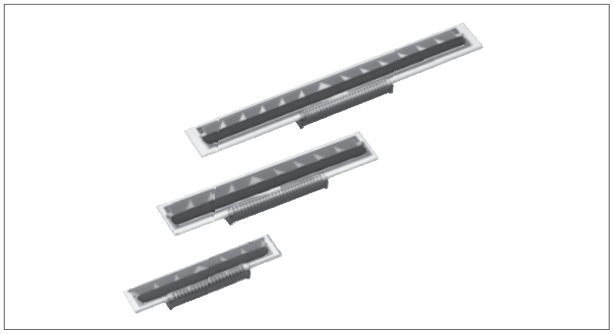
打字宽度	
01	1inch
02	2inch
03	3inch
04	4inch
05	5inch
06	6inch
08	8inch
10	10inch

例)

系列选项	
DF	Both side type connectors with Heatsink
DG	Center type connector with Heatsink

etc.

便携式打印机用系列



■特性

除了 7.2V 锂离子电池驱动的标准产品外，还增加了 4.2V 驱动的节能型和 12V 驱动的高速打印型产品，可满足设备的多样化需求。

■应用

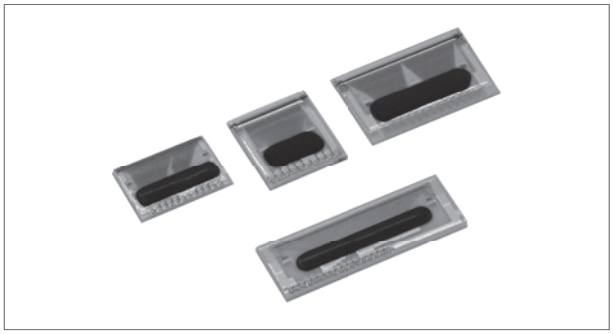
适用于电压低且电流容量有严格限制的便携式打印机和要求小型、节能的 EFT-POS 终端、收据打印机、小型标签打印机等。

便携式打印机用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Abrasion life (km)	Pulse life (million pulses)
KR2002-D06B71A	203	48	384	80	8	100	4.2	2.70 to 5.25	–	50	100
KR3002-B06N1BA	300	48.787	576			50					
KA2002-B05B70A	203	48	384	176		100	7.2				
KA2002-H05N00A											
KA2002-B35N00A									Flat Cable		
KA2003-B35N00A		72	576								
KA2003-H05N20A					14				–		
KA2004-D35N90A		104	832		8				Flat Cable		
KA2004-H05N20A					14				–		
New KA3002-B05N00A	300	48.787	576		8	75					
KA3003-H05N20A		73.181	864		14						
New KA3004-303N00A		108.416	1280	210		100		3.3 to 5.25			
KD2002-G0JB10A	203	48	384			150	12	2.70 to 5.25			50
KA3008-C03N10A	300	219.542	2592	395		100	14				100

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

标签打印机用系列



■特性

采用罗姆自创的结构，为打印机的小型、轻量化作出贡献。
采用与标签的接触性良好、耐腐蚀性强、可靠性优异的厚膜结构，同时采用了热能效率优异的节能发热体结构。

■应用

适用于为展示和包装等用途出具标签的标签打印机。

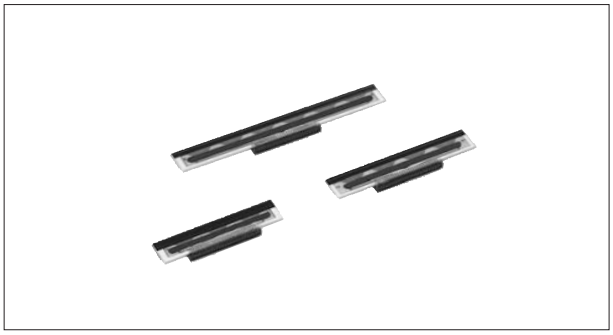
标签打印机用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Abrasion life (km)	Pulse life (million pulses)
KL0643-BB11A	180	9.024	64	281	14	50	7.2	3.00 to 5.25	–	30	50
KL2000-E0KN60A	203	12	96	142	17			2.70 to 5.25		50	
KL1801-DB92A	180	18.048	128	400	14			4.75 to 5.25		30	
KA2001-B05N30	203	24	192	123				2.70 to 5.25		50	100

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

收据打印机、标签打印机用系列





■特性

通过采用适合各种打印速度和媒介的发热体结构，兼顾打印品质和节能性。采用高频时钟，还可支持高级控制功能。

■应用

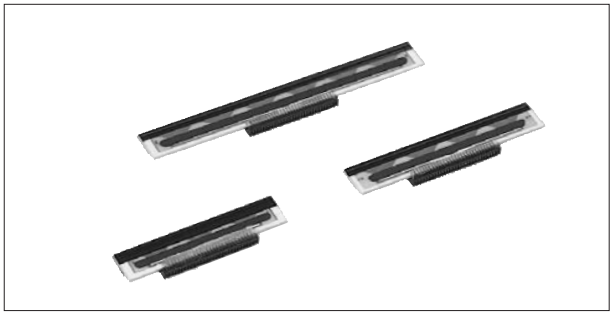
适合用于在各领域广泛使用的 POS 终端、ATM 机等的收据打印机、标签打印机，以及老虎机、彩票打印机。

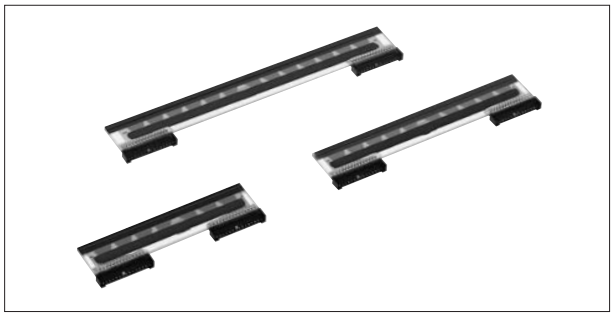
收据打印机、标签打印机用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-CAFW00A	203	54	432	800	14	150	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-CAFW00A		72	576									
New KD2004-C1GW00A		108	864							NO		
KD2002-LEFW00A		54	432		20				Flat Cable	YES		
KD2003-CG11A		72	576									
KD2004-CG11A		108	864									
KD2008-CF10A		216	1728	1000		100			Wire Cable		50	50
KD2008-CF16A				800		125						
KD3008-CF10A	300	219.542	2592	1250		100					50	100
KD2008-CG50A	203	216	1728	800		150		4.75 to 5.25	Flat Cable			50
KD2003-L0GBA0A		72	576		12	200		3.13 to 5.25	—	NO		

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

高速收据打印机、智能POS终端用系列





■特性

采用支持高速打印的自创的发热体结构，实现高速打印和清晰的打印效果。对各种媒介实现高画质打印。

■应用

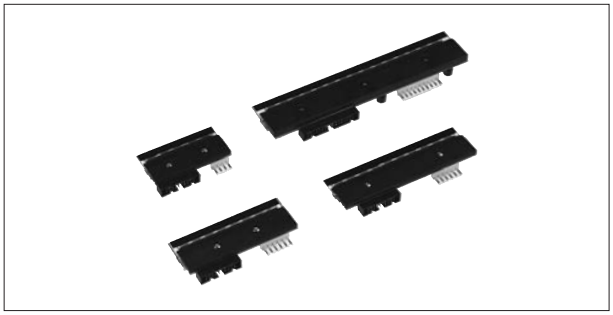
适用于支持高速打印的智能 POS 机、ECR 打印机和厚纸小型标签打印机。

高速收据打印机、智能POS终端用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
New KD2002-D5FW00A	203	56	448	650	20	250	24	3.13 to 5.25	Wire Cable	NO	150	100
New KD2003-F0GB00A		80	640		14				—		50	50
New KD2003-F0FW00A											150	100
New KD2004-D0GW00A		104	832		20				Wire Cable			
KD2005-UAGX00A		144	1152	800		125		4.75 to 5.25		YES	50	50
KD3002-KAFW00A	300	54.208	640	1000	18	200		3.13 to 5.25	Flat Cable		150	100
New KD3002-GEFW00A					14	250						
KD3003-K5FW00A		81.312	960		20	200				NO		
KD3003-KAFW00A					18				Wire Cable	YES		
KD3004-KAGW00A		108.416	1280									
KD3008-DF54A		216.832	2560	660	25	100		4.75 to 5.25				

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

物流、票券、测量仪用系列



■特性

该系列是通过采用支持高速打印的发热体结构和高耐久性保护膜，以及支持大电流的结构，来满足工业设备所要求的高可靠性。

■应用

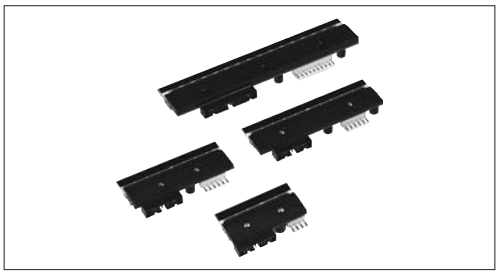
适用于室外使用和连续出票的售票机和标签打印机、食品测量仪等。

物流、票券、测量仪用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-TQFW00A	203	56	448	550	20	250	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-TQFW00A		80	640									
KD2004-TQFW00A		104	832									
KD2006-TQFW00A		168	1344									
KD3002-TQFW00A	300	54.208	640	850								
KD3003-TQFW00A		81.312	960									
KD3004-TQFW00A		108.416	1280									
KD3006-TQFW00A		162.624	1920									
TE3004-TP1W00A		105.706	1248	570		400						

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

物流、高速标签用系列(带热记录控制)



■特性

适用于需要高打印品质的工业设备用条形码打印机等。该系列可通过发热记录控制各发热体的发热时间。

■应用

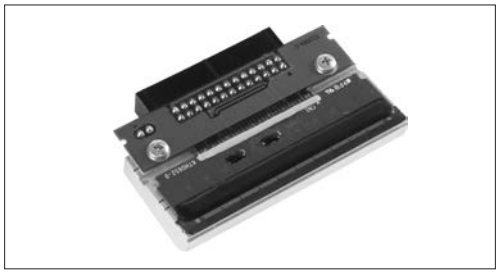
适用于需要进行 24 小时工作和长时间连续打印的工厂装配流水线和物流中心等的条形码打印机。

物流、高速标签用系列(带热记录控制)

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-RQFW00A	203	56	448	550	20	300	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-RQFW00A		80	640									
KD2004-RQFW00A		104	832									
KD2006-RQFW00A		168	1344									
KD3002-RQFW00A	300	54.208	640	850								
KD3003-RQFW00A		81.312	960									
KD3004-RQFW00A		108.416	1280									
KD3006-RQFW00A		162.624	1920									

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

日期代码打印机用系列



■特性

该热敏打印头即使使用难以高速打印、耐刮擦性优异的树脂色带，也能进行超高速打印并得到高品质画质。

■应用

应用于物流管理和无人收银中使用的电子标签、环保型包装材料和复杂的物流管理所需要的日期代码信息等，有助于提高食品加工现场和物流现场的生产效率。

日期代码打印机用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
TH3001-2P1W00A	305	31.987	384	570	50	1000	24	3.13 to 5.25	Wire Cable	YES	150	100
TH3002-2P1W00A		53.312	640									

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

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品名索引

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9) 请不要将本产品用于要求极高可靠性的下列机器上。
航空宇航机器、原子能控制机器、海底中转机器

10) 由于未按照本资料所述内容操作而发生的一切事故、损害，罗姆公司概不予承担责任。

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13) 在出口或者向国外提供本产品及本资料所述技术时，请遵守“外汇及对外贸易法”、“美国出口管理规则”等出口相关法律法规，并按照规定履行必要程序。

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[关于RoHS指令]

本资料所述产品均符合RoHS指令。
除通常环境下自然的杂质及规定例外的情况，产品符合RoHS指令中对六种物质(铅、镉、汞、六价铬、PBB、PBDE)的限制要求。
相应产品的端口及电极不含铅。
除RoHS指令规定例外的物质外，产品内部也实现了无铅化。
但是，不应解释为符合欧盟国家对RoHS指令的法律法规。

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