

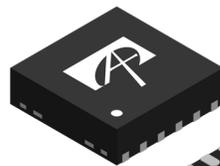


ALPHA & OMEGA
SEMICONDUCTOR

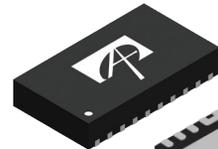
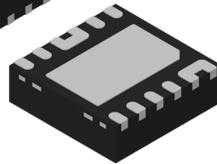


USB Type-C Load Switches

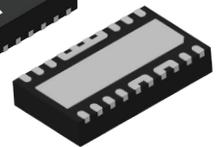
- USB-PD Power Profile Full Compliance
- SPR and EPR Capable Products
- Ideal Diode True Reverse Current Blocking
- Lowest on Resistance
- Compact 2-in-1 Combo Sink / Source Switch
- High Voltage Source Switch



AOZ13987/984

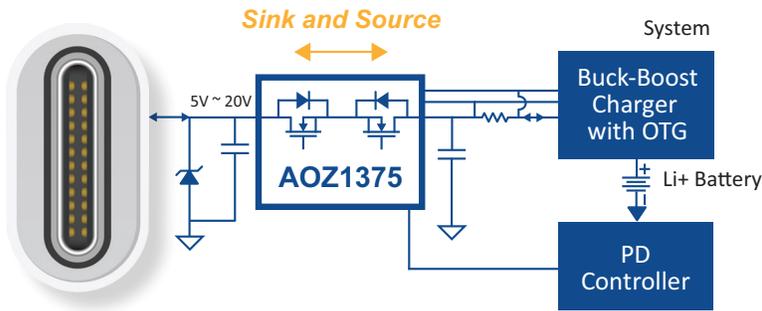


AOZ1380/2

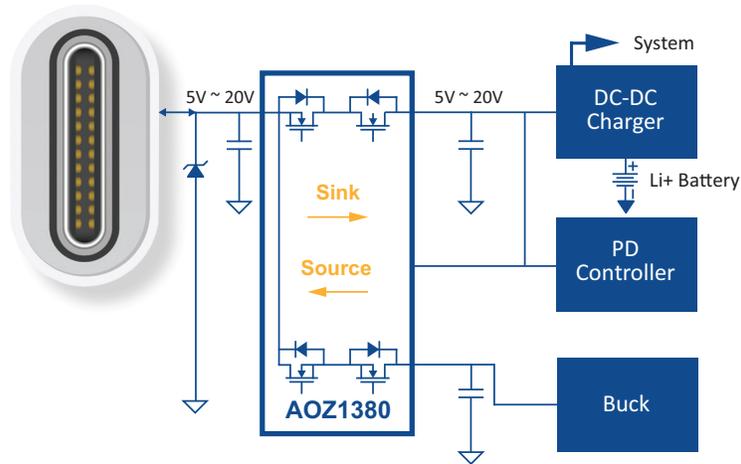


PICs
USB Type-C
Load
Switches

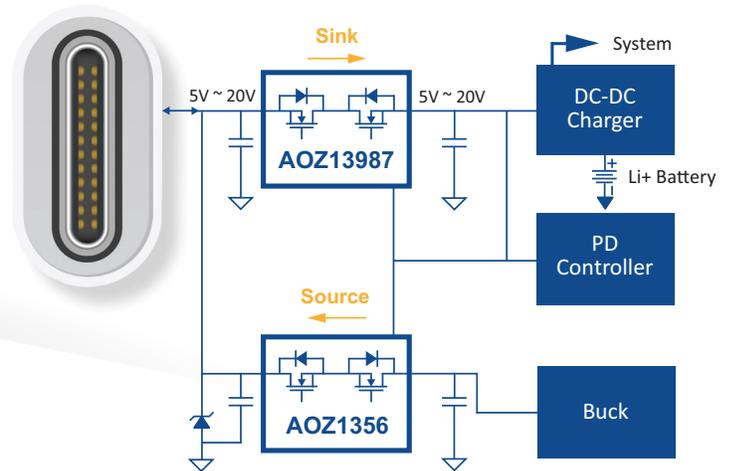
APPLICATIONS



AOZ1375 Implementation in Single-Port OTG USB



AOZ138x Family Offers Combo Sink and Source Switch in Single Package



AOZ13987 Offers Ideal Diode TRCB AOZ1356 Offer Fast Role Swap Support



Features and Advantages

AOZ1375 Features

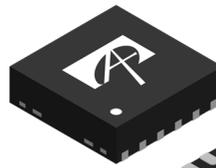
- 20V/5A bidirectional load switch
- 17.8mΩ typical on resistance
- Protection Features:

Reverse Current Blocking, Adjustable Soft Start, Adjustable Current Limit, Over-Voltage Protection, Under-Voltage Lockout, Short-Circuit Protection, Thermal Shutdown

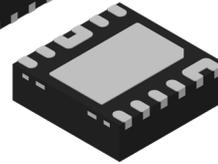
AOZ1374 Features

- 23V sourcing protection switch
- 28V absolute max
- 36mΩ typical on resistance
- Startup SOA management
- Protection Features:

True Reverse Blocking, Adjustable Soft Start, Adjustable Current Limit, Over-Voltage Protection, Under-Voltage Lockout, Short-Circuit Protection, Thermal Shutdown



AOZ13987/984

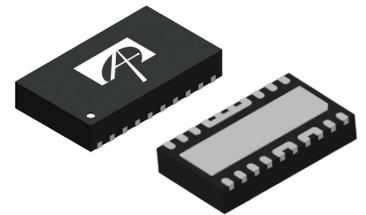


AOZ13987 Features

- 23V/8A sinking protection switch
- 20mΩ typical on resistance
- 20A Peak Current Capability
- Protection Features:

Ideal Diode True Reverse Current Blocking, Adjustable Soft Start, Over-Voltage Protection, Under-Voltage Lockout, Thermal Enhanced DFN Package, Startup Short-Circuit Protection, Thermal Shutdown

AOZ138x



AOZ138x Features

- 20V combo protection switch
- AOZ1382 offers Ideal Diode Sink Function
- 20mΩ sink switch
- 39mΩ source switch
- Protection Features:

*True Reverse Blocking, Over-Voltage Protection, Under-Voltage Lockout, Thermal Enhanced Package, Thermal Shutdown
Additional for Source: Adjustable Current Limit, Fast Role Swap*

Product Selection

Part Number	Ops V_{IN} (V)	Abs Max V_{OUT} (V)	RDSON	Current Flow	Current Limit	TRCB	Package
AOZ1327DI-01 AOZ1327DI-02	3.4 to 22	28	20	Sink	No	$V_{OUT} > V_{IN}$	DFN3x3-12L
AOZ1324DI-01 AOZ1324DI-02	3.4 to 22	28	32	Sink	No	$V_{OUT} > V_{IN}$	DFN3x3-12L
AOZ13987DI-02	3.4 to 23	28	20	Sink	No	Ideal Diode	DFN3x3-12L
AOZ13984DI-02	3.4 to 23	28	33	Sink	No	Ideal Diode	DFN3x3-12L
AOZ1356DI-01 AOZ1356DI-02	3.4 to 5.5	28	39	Source	Adjustable	$V_{OUT} > V_{IN}$	DFN3x3-12L
AOZ1356LI-01 AOZ1356LI-02	3.4 to 5.5	28	34	Source	Adjustable	$V_{OUT} > V_{IN}$	WLCSP-12 Bumps
AOZ1358LI-01	3.4 to 5.5	28	34	Source	Adjustable	Ideal Diode	WLCSP-16 Bumps
AOZ1533DI	3.4 to 5.5	39	45	Source	Adjustable	$V_{OUT} > V_{IN}$	DFN3x3-12L
AOZ1393DI	3.4 to 32	39	20	Sink	No	Ideal Diode	DFN3x3-12L
AOZ1377DI-01 AOZ1377DI-02	3.4 to 23	28	34	Source	Adjustable	$V_{OUT} > V_{IN}$	DFN3x3-10L
AOZ1375DI-01 AOZ1375DI-02	3.4 to 23	28	18	Sink or Source	Adjustable (Source)	EN = Low	DFN3x3-12L
AOZ1380DI-01	3.4 to 23	28 on VBUS	20 (Sink) / 39 (Source)	Sink and Source	Adjustable (Source)	$V_{CHG} > VBUS$ $VBUS > V5V$	DFN3x5.2-20L
AOZ1381DI-01	3.4 to 23	28 on VBUS	34 (Sink) / 39 (Source)	Sink and Source	Adjustable (Source)	$V_{CHG} > VBUS$ $VBUS > V5V$	DFN3x5.2-20L
AOZ1382DI-01	3.4 to 23	28 on VBUS	34 (Sink) / 39 (Source)	Sink and Source	Adjustable (Source)	Ideal Diode Sink $VBUS > V5V$	DFN3x5.2-20L
AOZ13287DI-02	3.4 to 23	28	9	Sink	No	Ideal Diode	DFN3.2x5.5-17L



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