



Selector Guide

Winter/Spring 2022



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Powering a Greener Future™

CORPORATE OVERVIEW

Alpha and Omega Semiconductor Limited (AOS) is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of Power MOSFET, IGBT, IPM, HVIC, SiC, TVS, Power IC, and Digital Power products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables it to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high-performance power management solutions. AOS's products are aimed at, but not limited to applications such as portable computers, flat panel TVs, LED lighting, smartphones, battery packs, consumer and industrial motor controls, automotive electronics, and power supplies for TVs, computers, servers and telecommunications equipment.



MARKET SEGMENTS



	Computing / Conventional	Computing / Advanced	Consumer	Communications	Industrial / Power Supplies
APPLICATIONS	<ul style="list-style-type: none"> ■ Notebooks ■ Netbooks ■ Desktops ■ NB Battery Packs ■ Game Consoles ■ Docking Stations ■ Computer Monitors 	<ul style="list-style-type: none"> ■ Servers ■ Data Storage Devices ■ Ultra Notebooks ■ Tablets ■ Graphic Cards 	<ul style="list-style-type: none"> ■ Quick Charger ■ TV DC-DC Conversion ■ LED Drivers ■ LED Backlighting ■ Home Appliances ■ Induction Heating 	<ul style="list-style-type: none"> ■ Mobile Phones ■ Networking ■ Battery Packs 	<ul style="list-style-type: none"> ■ Motor Controls ■ Power Supplies ■ Telecom Power ■ Lighting ■ Welding ■ PV Inverters
KEY FAMILIES / PLATFORMS	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - DrMOS - SPS - Smart Load Management - Type C PD - Digital Multiphase Controller - Hybrid Multiphase Controller ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - XSFET™ Family - AlphaSGT2 - Load Switch ■ High Voltage Super Junction MOSFETs <ul style="list-style-type: none"> - 600V αMOS5™ - 700V αMOS5™ ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - DrMOS - eFuse - SPS - Smart Load Management - Type C PD ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - XSFET™ Family - AlphaSGT2 - AlphaDFN™ ■ High Voltage Super Junction MOSFETs <ul style="list-style-type: none"> - 600V αMOS5™ - 700V αMOS5™ ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - AC/DC - Smart Load Management ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - AlphaSGT2 ■ High Voltage Super Junction MOSFETs <ul style="list-style-type: none"> - 600V αMOS5™ - 700V αMOS5™ ■ IPMs <ul style="list-style-type: none"> - 600V IPM - 700V IPM ■ IGBTs <ul style="list-style-type: none"> - 650V IGBT/FRD - 1200V & 1350V IGBT/FRD ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - DrMOS - SPS - Smart Load Management - Half-Bridge Driver (Coil Driver) - Digital Multiphase Controller ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - XSFET™ Family - AlphaSGT2 - AlphaDFN™ ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - AC-DC - Half-Bridge Driver (SMM) ■ Medium Voltage MOSFETs <ul style="list-style-type: none"> - AlphaSGT2 ■ High Voltage Super Junction MOSFETs <ul style="list-style-type: none"> - 600V αMOS5™ - 700V αMOS5™ ■ αSiC/αGaN™ ■ IPMs <ul style="list-style-type: none"> - 600V IPM - 700V IPM ■ IGBTs <ul style="list-style-type: none"> - 650V IGBT/FRD ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS





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DIVERSE CUSTOMER BASE

Telecom	Consumer		Computing	Industrial
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<ul style="list-style-type: none"> ▪ Artesyn ▪ BEL ▪ Delta ▪ Efore ▪ Emerson ▪ H3C ▪ Murata ▪ Nokia ▪ ZTE 	<ul style="list-style-type: none"> ▪ Changhong ▪ Hisense ▪ LG ▪ Panasonic ▪ Samsung ▪ Sony ▪ TCL 	<ul style="list-style-type: none"> ▪ Diehl ▪ GE ▪ Haier ▪ Hisense ▪ Microsteps ▪ Midea ▪ Miele ▪ Nidec ▪ Panasonic ▪ Robam ▪ Samsung ▪ Whirlpool 	<ul style="list-style-type: none"> ▪ Acer ▪ AMD ▪ Asus ▪ Dell ▪ Hewlett Packard ▪ Lenovo ▪ Microsoft ▪ Nvidia 	<ul style="list-style-type: none"> ▪ BYD ▪ Chicony ▪ Delta ▪ Emerson ▪ Lite-On ▪ Nidec ▪ Philips ▪ Stanley Black & Decker

AOS HAS BEEN CERTIFIED FOR THE FOLLOWING:

- IATF 16949 (Quality Management System for Automotive)
- ISO 9001 (Quality Management System)
- ISO 14001 (Environmental Management System)
- ISO 45001 (Occupational Health and Safety Management System)
- QC 080000 (Hazardous Substance Management System)
- Sony's Green Partner Program
- ISO 14064 (Greenhouse Gasses)

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POWER ICs

AOS provides best-in-class power management solutions combining Power Discrete and IC technologies. The portfolio of products includes EZBuck™ step-down DC/DC regulators, DrMOS Power Modules and Smart Power Stage (SPS),

ECPower™ Type C protection switch, EZPower™ smart load switches, eFuse, Half-Bridge Driver, AC-DC solutions, Client Computing Multiphase hybrid digital controller, and Digital Multiphase controller devices. AOS's approach is to provide high-power density solutions to reduce design complexity and development time.

DC-DC Buck Regulators – Synchronous EZBuck™ Family

Part Number	Description	PGOOD	Soft Start	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)	Package	
AOZ2140DI	3A Sync Buck Regulator with Output Load Switch	Yes	4ms	3.0	5.5	3.0	0.8	3.3	650	DFN 3x2	
AOZ2150EQI-30	3A Sync Buck Regulator with 1MHz Switching Frequency	No	Adjustable	6.5	28	3.0	0.8	24.0	1000	QFN 3x3	
AOZ2151EQI-30	4A Sync Buck Regulator with 1MHz Switching Frequency	No	Adjustable	6.5	28	4.0	0.8	24.0	1000	QFN 3x3	
AOZ2151PQI-03	4A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	4.0	0.8	14.0	1000	QFN 3x3	
AOZ2151PQI-05	4A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	4.0	0.8	14.0	1000	QFN 3x3	
AOZ2151PQI-10	4A Sync Buck Regulator with Auto Restart after Fault Protection	No	Adjustable	6.5	28	4.0	0.8	24.0	1000	QFN 3x3	
AOZ2151QI-01	4A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable	6.5	28	4.0	0.8	28.0	1000	QFN 3x3	
AOZ2151TQI-19	4A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable	6.5	28	4.0	0.8	24.0	1000	QFN 3x3	
AOZ2152EQI-28	5A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	5.0	0.8	24.0	1000	QFN 3x3	
AOZ2152EQI-29	5A Sync Buck Regulator for Low Noise Application	No	Adjustable	6.5	28	5.0	0.8	24.0	1000	QFN 3x3	
AOZ2152EQI-30	6A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	6.0	0.8	24.0	1000	QFN 3x3	
AOZ2152EQI-31	6A Sync Buck Regulator for Low Noise Application	No	Adjustable	6.5	28	6.0	0.8	24.0	1000	QFN 3x3	
AOZ2152TQI-19	6A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable	6.5	28	6.0	0.8	14.0	1000	QFN 3x3	
AOZ2153EQI-30	8A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	8.0	0.8	24.0	1000	QFN 3x3	
AOZ2153PQI-04	8A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	8.0	0.8	14.0	1000	QFN 3x3	
AOZ2231CQI-01	4A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms	6.5	28	4.0	0.6	1.791	400	QFN 4x4	
AOZ2231CQI-11	4A I ² C Controllable Sync Buck Regulator 0.9V ~ 1.191V Output Range	Yes	4ms	6.5	28	4.0	0.9	1.191	400	QFN 4x4	
AOZ2231CQI-21	4A I ² C Controllable Sync Buck Regulator 0.7V ~ 0.926V Output Range	Yes	4ms	6.5	28	4.0	0.7	0.926	400	QFN 4x4	
AOZ2231CQI-23	4A I ² C Controllable Sync Buck Regulator 0.7V ~ 0.926V Output Range	Yes	4ms	6.5	28	4.0	0.7	0.926	400	QFN 4x4	
AOZ2232CQI-02	6A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms	6.5	28	6.0	0.6	1.791	400	QFN 4x4	
AOZ2233CQI-02	8A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms	6.5	28	8.0	0.6	1.791	400	QFN 4x4	
AOZ2233CQI-12	8A I ² C Controllable Sync Buck Regulator 0.9V ~ 1.191V Output Range	Yes	4ms	6.5	28	8.0	0.9	1.191	400	QFN 4x4	
AOZ2233CQI-22	8A I ² C Controllable COT EZBuck Regulator 0.7V ~ 0.926V Output Range	Yes	4ms	6.5	28	8.0	0.7	0.926	400	QFN 4x4	
AOZ2233CQI-24	8A I ² C Controllable COT EZBuck Regulator 0.7V ~ 0.926V Output Range	Yes	4ms	6.5	28	8.0	0.7	0.926	400	QFN 4x4	
AOZ2234CQI-02	10A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms	6.5	28	10.0	0.6	1.791	400	QFN 4x4	
AOZ2235CQI-02	12A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms	6.5	28	12.0	0.6	1.791	400	QFN 4x4	
AOZ2236CQI-02	15A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms	6.5	28	12.0	0.6	1.791	400	QFN 4x4	
AOZ2238QI-01	10 Sync Buck Regulator with 2.7V Low Input Voltage	No	Adjustable	2.7	28	10.0	0.8	24.0	1000	QFN 4x4	
AOZ2250BQI-22	3A Constant Current Sync Buck Regulator	No	Adjustable	6.5	28	3.0	5.0	20.0	200	QFN 4x4	
AOZ2253EQI-30	8A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	8.0	0.8	24.0	1000	QFN 4x4	
AOZ2253TQI-11	8A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable	6.5	28	8.0	0.8	14.0	1000	QFN 4x4	
AOZ2253TQI-20	8A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable	6.5	28	8.0	0.8	14.0	1000	QFN 4x4	
AOZ2254EQI-30	10A COT EZBuck Regulator with Light Load Mode	No	Adjustable	6.5	28	10.0	0.8	24.0	1000	QFN 4x4	
AOZ2254TQI-11	10A Sync Buck Regulator with Power Good Indicator	No	Adjustable	6.5	28	10.0	0.8	24.0	1000	QFN 4x4	
AOZ2254TQI-20	10A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable	6.5	28	10.0	0.8	14.0	1000	QFN 4x4	
AOZ2255AQI-30	12A Sync Buck Regulator with 0.6V Low Output Voltage	No	External	6.5	28	12.0	0.6	24.0	1000	QFN 4x4	
AOZ2255EQI-30	12A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable	6.5	28	8.0	0.8	24.0	1000	QFN 4x4	
AOZ2255LQI-30	12A Sync Buck Regulator with 0.6V Low Output Voltage	Yes	Adjustable	6.5	28	12.0	0.6	24.0	1000	QFN 4x4	
AOZ2255LQI-31	12A Sync Buck Regulator with 0.6V Low Output Voltage	Yes	Adjustable	6.5	28	12.0	0.6	24.0	1000	QFN 4x4	
AOZ2260AQI-10	6A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28	6.0	0.8	24.0	1000	QFN 4x4	
AOZ2260AQI-15	6A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable	4.0	28	6.0	0.8	24.0	1000	QFN 4x4	
AOZ1266AQI	New	6A EZBuck Regulator (Latch)	Yes	Adjustable	6.5	28.0	6.0	0.6	24.0	1000	QFN 4x4

DC-DC Buck Regulators – Synchronous EZBuck™ Family (Continued)

Part Number	Description	PGOOD	Soft Start	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)	Package	
AOZ1267AQI	New	8A EZBuck Regulator (Latch)	Yes	Adjustable	6.5	28.0	8.0	0.6	24.0	1000	QFN 4x4
AOZ1268AQI	New	10A EZBuck Regulator (Latch)	Yes	Adjustable	6.5	28.0	10.0	0.6	24.0	1000	QFN 4x4
AOZ1269AQI	New	12A EZBuck Regulator (Latch)	Yes	Adjustable	6.5	28.0	12.0	0.6	24.0	1000	QFN 4x4
AOZ1270AQI	New	15A EZBuck Regulator (Latch)	Yes	Adjustable	6.5	28.0	15.0	0.6	24.0	1000	QFN 4x4
AOZ2152LQI-30	New	6A COT EZBuck Regulator	No	Adjustable	6.5	28.0	6.0	0.6	24.0	1000	QFN 3x3
AOZ2153LQI-30	New	8A COT EZBuck Regulator	No	Adjustable	6.5	28.0	8.0	0.6	24.0	1000	QFN 3x3
AOZ2253LQI-30	New	8A COT EZBuck Regulator	No	Adjustable	6.5	28.0	8.0	0.6	24.0	1000	QFN 4x4
AOZ2254LQI-30	New	10A COT EZBuck Regulator	No	Adjustable	6.5	28.0	10.0	0.6	24.0	1000	QFN 4x4
AOZ2260AQI-18		6A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28.0	6.0	0.8	24.0	1000	QFN 4x4
AOZ2261AQI-10		8A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28.0	8.0	0.8	24.0	1000	QFN 4x4
AOZ2261AQI-15		8A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable	4.0	28.0	8.0	0.8	24.0	1000	QFN 4x4
AOZ2261AQI-18		8A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28.0	8.0	0.8	24.0	1000	QFN 4x4
AOZ2261NQI-11		8A Sync Buck Regulator for nVidia Platform	Yes	Adjustable	2.7	28.0	8.0	0.6	24.0	1000	QFN 4x4
AOZ2261NQI-12	New	8A Sync EZBuck Regulator	Yes	Adjustable	2.0	28.0	8.0	0.6	24.0	1000	QFN 4x4
AOZ2262AQI-10		10A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28.0	10.0	0.8	24.0	1000	QFN 4x4
AOZ2262AQI-15		10A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable	4.0	28.0	10.0	0.8	24.0	1000	QFN 4x4
AOZ2262AQI-18		10A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28.0	10.0	0.8	24.0	1000	QFN 4x4
AOZ2262NQI-11		10A Sync Buck Regulator for Nvidia Platform	Yes	External	2.7	28.0	8.0	0.8	24.0	1000	QFN 4x4
AOZ2262NQI-12	New	10A Sync Buck Regulator for Nvidia Platform	Yes	Adjustable	2.0	28.0	10.0	0.6	24.0	1000	QFN 4x4
AOZ2263AQI-10		12A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28.0	12.0	0.8	24.0	1000	QFN 4x4
AOZ2263AQI-15		12A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable	4.0	28.0	12.0	0.8	24.0	1000	QFN 4x4
AOZ2263AQI-18		12A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.0	28.0	12.0	0.8	24.0	1000	QFN 4x4
AOZ2263NQI-11		12A Sync Buck Regulator for Nvidia Platform	Yes	External	2.7	28.0	8.0	0.8	24.0	1000	QFN 4x4
AOZ2263NQI-12	New	12A Sync Buck Regulator for Nvidia Platform	Yes	Adjustable	2.0	28.0	12.0	0.6	24.0	1000	QFN 4x4
AOZ2263VQI-01		12A Sync Buck Regulator for Intel VCCIO	Yes	1.5	4.0	28.0	12.0	1.05	1.125	600	QFN 4x4
AOZ2263VQI-02		12A Sync Buck Regulator for Intel VCCIO	Yes	1.5	4.0	28.0	12.0	0.8	1.05	600	QFN 4x4
AOZ2264NQI-11		15A Sync Buck Regulator for nVidia Platform	Yes	Adjustable	2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
AOZ2264VQI		16A Sync Buck Regulator for Intel VCC-AUX	Yes	1.5 ms	4.0	28.0	16.0	0.0	1.8	450	QFN 4x4
AOZ2264QI-11		15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
AOZ2264QI-15		15A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable	2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
AOZ2264QI-18		15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
AOZ2264QI-19		15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
AOZ2264QI-20		15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
AOZ2264VQI		15A Sync Buck Regulator for Intel VCC-AUX	Yes	1.5 ms	4.0	28.0	16.0	0.0	1.8	450	QFN 4x4
AOZ2338CQI-01	New	25A Sync Buck Regulator with Light Load Mode	Yes	4 ms	6.5	28.0	25.0	0.6	1.791	400	QFN 5x5
AOZ2366QI		20A Sync Buck Regulator with Selectable Light Load Mode	Yes	External	4.5	28.0	20.0	0.6	20.0	1000	QFN 5x5
AOZ2366QI-04	New	28V/22A Synchronous EZBuck Regulator	Yes	Adjustable	4.5	28.0	22.0	0.6	20.0	1000	QFN 5x5
AOZ2367QI-11		20A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.5	24.0	20.0	0.6	20.0	1000	QFN 5x5
AOZ2368QI-11		25A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.5	24.0	25.0	0.6	20.0	1000	QFN 5x5
AOZ2369QI-11		30A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable	4.5	24.0	30.0	0.6	20.0	1000	QFN 5x5
AOZ6604PI		4A Sync Buck Regulator with Automatic Light Load Mode	No	External - Programmable	4.5	18.0	4.0	0.6	15.3	600	Exposed Pad SO-8
AOZ6605PI		5A Sync Buck Regulator with Automatic Light Load Mode	No	External - Programmable	4.5	18.0	5.0	0.6	15.3	650	Exposed Pad SO-8
AOZ6605PI-1		5A Sync Buck Regulator with Automatic Light Load Mode	No	External - Programmable	4.5	18.0	5.0	0.6	15.3	600	Exposed Pad SO-8
AOZ6606PI		5A Sync Buck with Automatic Light Load Mode	No	External - Programmable	4.5	18.0	5.0	0.6	15.3	600	Exposed Pad SO-8
AOZ6622DI		2A Sync Buck Regulator in DFN3x3	No	1.5 ms	4.5	18.0	2.0	0.8	15.3	550	DFN 3x3
AOZ6623DI		3A Sync Buck Regulator in DFN3x3	No	1.5 ms	4.5	18.0	3.0	0.8	15.3	550	DFN 3x3
AOZ6643DI		3A Sync Buck Regulator in DFN3x3	No	4 ms	4.5	18.0	3.0	0.8	15.3	500	DFN 3x3
AOZ6662DI		2A Sync Buck Regulator in DFN3x3	No	3.5 ms	4.5	18.0	2.0	0.6	15.3	750	DFN 3x3
AOZ6662DI-01		2A Sync Buck Regulator with Output Adaptive Light Load Mode	No	3.5 ms	4.5	18.0	2.0	0.6	15.3	750	DFN 3x3

DC-DC Buck Regulators – Synchronous EZBuck™ Family (Continued)

Part Number	Description	PGOOD	Soft Start	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)	Package
AOZ6663DI	3A Sync Buck Regulator in DFN3x3	No	3.5ms	4.5	18.0	3.0	0.6	15.3	750	DFN 3x3
AOZ6663DI-01	3A Sync Buck Regulator with Output Adaptive Light Load Mode	No	3.5ms	4.5	18.0	3.0	0.6	15.3	750	DFN 3x3
AOZ6682CI	2A Sync Buck Regulator in SOT23	No	2.8ms	4.5	18.0	3.0	0.8	15.3	750	TSOT23
AOZ6683CI	3A Sync Buck Regulator in SOT23	No	2.8ms	4.5	18.0	3.0	0.8	15.3	750	TSOT23
AOZ6689CI	New 3A Sync Buck Regulator in SOT23	No	2.8ms	4.5	18.0	3.0	0.8	15.3	750	TSOT23
AOZ6762DI	2A Sync Buck Regulator with 1.25MHz Switching Frequency	No	3.5ms	4.5	18.0	2.0	0.6	15.3	1250	DFN 3x3
AOZ6763DI	3A Sync Buck Regulator with 1.25MHz Switching Frequency	No	3.5ms	4.5	18.0	2.0	0.6	15.3	1250	DFN 3x3
AOZ22555QI	New 15A Sync Buck Regulator with Adjustable Current Limit	Yes	Adjustable	6.5	25	15	0.6	20	1000	QFN 4x4

DC-DC Buck Regulators – Non Synchronous EZBuck™ Family

Part Number	Description	Integrated Schottky	Soft Start (ms)	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)	Package
AOZ1084DI	36V Non Sync Buck LED Driver	No	0.4 ms	4.5	36.0	1.2	0.16	30.0	450	DFN 2x2
AOZ1280CI	1.2A Non Sync Buck with 3V Low Input Voltage	No	0.4 ms	3.0	26.0	1.2	0.8	23.0	1500	SOT-23
AOZ1281DI	1.8A Non Sync Buck with 3V Low Input Voltage	No	0.4 ms	3.0	26.0	1.8	0.8	23.0	1500	DFN 2x2
AOZ1282CI	1.2A 36V High Voltage Non Sync Buck in SOT23	No	0.4 ms	4.5	36.0	1.2	0.8	30.0	450	SOT-23
AOZ1282CI-1	0.6A 36V High Voltage Non Sync Buck	No	0.4 ms	4.5	36.0	0.6	0.8	30.0	1000	SOT-23
AOZ1282CI-2	0.6A 36V High Voltage Non Sync Buck with 97% Max Duty Cycle	No	0.4 ms	4.5	36.0	0.6	0.8	34.0	1000	SOT-23
AOZ1282DI	1.2A 36V High Voltage Non Sync Buck in DFN	No	0.4 ms	4.5	36.0	1.2	0.8	30.0	450	DFN 2x2
AOZ1283PI	2.5A 3V ~ 36V Wide Input Range Non Sync Buck	No	Adjustable	3.0	36.0	2.5	0.8	30.0	Adjustable	DFN 3x3
AOZ1284PI	4A 3V ~ 36V Wide Input Range Non Sync Buck	No	Adjustable	3.0	36.0	4.0	0.8	30.0	Adjustable	DFN 3x3

Smart Load Switches – EZPower™ Family

Part Number	Description	V _{IN} (V)	Turn On Rise Time (T _r)	Channel	Enable	Current Limit (A)	Fault Latch	R _{DS} (mΩ) (Typ)	Package
AOZ1334DI-01	Single Channel Smart Load Switch	0.8 - 5.5	10 μs	1	CMOS/TTL Compatible	10.0	No	5	DFN 3x3
AOZ1334DI-02	Single Channel Smart Load Switch	0.8 - 5.5	0.5ms	1	CMOS/TTL Compatible	10.0	No	5	DFN 3x3
AOZ1336DI	Single Channel Smart Load Switch	0.8 - 5.5	Adjustable	1	CMOS/TTL Compatible	4.0	No	27	DFN 2x2

AC-DC Power Solutions

Part Number	Description	Control Scheme	Integrated MOSFET	MOSFET (BV _{DSS}) (V)	MOSFET (R _{DS_ON}) (Ω)	MOSFET Operation (kHz)	Brown-In/ Brown-Out	X-Cap Discharge	UVLO (V)	Package
AOZ7200CI	600V Active Bridge Controller	—	No	600	—	—	—	No	12.9/15.3V	SOT23A-5
AOZ7270DI	600V Active Bridge Controller	—	Yes	600	0.19	—	—	No	12.9/15.3V	DFN5x7
AOZ7501GAI	Flyback PWM Controller	SSR	No	—	—	65	No	No	7/15	SO-7
AOZ7523RAI-12	Flyback PWM Controller	SSR	Yes	650	1.8	65	Yes	Yes	7/15	SO-13
AOZ7543RAI-12	Flyback PWM Controller	SSR	Yes	650	0.58	65	Yes	Yes	7/15	QFN 6x6
AOZ7635QI-03	Flyback STR Primary Side Converter	STR	Yes	700	0.9	150	No	No	6.7/15.5	QFN 6x6
AOZ7645QI-03	Flyback STR Primary Side Converter	STR	Yes	700	0.6	150	No	No	6.7/15.5	QFN 6x6
AOZ7645LQI-13	Flyback STR Primary Side Converter	STR	Yes	700	0.6	100	No	No	6.7/15.5	QFN 6x6
AOZ7645QI-13	Flyback STR Primary Side Converter	STR	Yes	700	0.6	150	No	No	6.7/15.5	QFN 6x6
AOZ7675QI	Flyback STR Primary Side Converter	—	Yes	700	200mΩ	—	—	—	—	QFN 7x7
AOZ7648QI-06	Flyback STR Secondary Side Converter	STR	Yes	100	9mΩ	145	—	—	2.7/3.5	QFN 6x6
AOZ7648QI-16	Flyback STR Secondary Side Converter	STR	Yes	100	9mΩ	100	—	—	2.7/3.5	QFN 6x6
AOZ7658DQI-16	Flyback STR Secondary Side Converter	STR	Yes	100	7mΩ	100	—	—	2.7/3.5	QFN 6x6
AOZ7000	Galvanic Isolator	STR	No	No	—	—	—	—	—	DFN 9.5x5.5
AOZ7111AI	Critical Conduction Mode PFC Controller	—	No	—	—	350	—	—	9.5/12.0	SOIC-8

DrMOS Power Modules

Part Number		Min Operation V _{IN} (V)	Max Operation V _{IN} (V)	DC Current (A)	PWM Input (V)	Tri-State Control	Enable Control	Thermal Flag	Application	Package
AOZ5007AQI		4.5	25	30	5	FCCM	FCCM	No	Notebook	QFN 3.5x4.5
AOZ5008AQI		4.5	25	35	5	FCCM	FCCM	No	Notebook	QFN 3.5x4.5
AOZ5016QI		4.5	25	55	5	FCCM	FCCM	No	Notebook	QFN 5x5
AOZ5017QI		4.5	25	60	5	FCCM	FCCM	No	Notebook	QFN 5x5
AOZ5018QI	New	4.5	25	65	5	FCCM	FCCM	No	DrMOS, Workstation	QFN 5x5
AOZ5048QI		4.5	25	35	5	FCCM	FCCM	No	Ultrabook	QFN 3.5x5
AOZ5049QI-02		4.5	25	35	5	FCCM	FCCM	No	Ultrabook	QFN 3.5x5
AOZ5116QI		4.5	25	55	5	SMOD	DISB#	No	Notebook	QFN 5x5
AOZ5116QI-01		4.5	25	55	5	SMOD	DISB#	No	Notebook	QFN 5x5
AOZ5117QI		4.5	25	60	5	SMOD	DISB#	Yes	Notebook, Workstation	QFN 5x5
AOZ5117QI-01		4.5	25	60	5	SMOD	DISB#	No	Notebook, Workstation	QFN 5x5
AOZ5118QI		4.5	25	65	5	SMOD	DISB#	Yes	Notebook, Workstation	QFN 5x5
AOZ5118QI-01		4.5	25	65	5	SMOD	DISB#	No	Notebook, Workstation	QFN 5x5
AOZ5131QI		4.5	20	50	5	FCCM	FCCM	No	Notebook	QFN 5x5
AOZ5166QI		4.5	16	60	5	SMOD	DISB#	Yes	Server	QFN 6x6
AOZ5166QI-01		4.5	16	60	3	SMOD	DISB#	Yes	Server	QFN 6x6
AOZ5273QI		3.0	20	70	3	PWM	EN	Yes	Server, Telecom SPS	QFN 5x6
AOZ5276QI-01	New	3.0	20	90	3	PWM	EN	Yes	Server, Telecom SPS	QFN 5x6
AOZ5277QI		3.0	20	60	3	PWM	EN	Yes	GPU SPS	QFN 5x6
AOZ5279QI		3.0	25	60	3	PWM	EN	Yes	Gaming Notebook GPU SPS	QFN 5x6
AOZ5311NQI		2.5	20	50	5	SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
AOZ5311NQI-03	New	2.5	20	55	5	SMOD	DISB#	Yes	DrMOS, GPU	QFN 5x5
AOZ5311UQI		2.5	20	50	5	SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
AOZ5312NQI		2.5	20	60	5	SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
AOZ5312UQI		2.5	20	60	5	SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
AOZ5313NQI		2.5	20	65	5	SMOD	DISB#	Yes	Discrete Graphic Card	QFN 5x5
AOZ5316NQI		2.5	25	55	5	SMOD	DISB#	Yes	Gaming Notebook GPU	QFN 5x5
AOZ5316UQI		2.5	25	55	5	SMOD	DISB#	Yes	Gaming Notebook GPU	QFN 5x5
AOZ5317NQI		2.5	25	60	5	SMOD	DISB#	Yes	Gaming Notebook GPU	QFN 5x5
AOZ5317UQI		2.5	25	60	5	SMOD	DISB#	Yes	Gaming Notebook GPU	QFN 5x5
AOZ5318NQI		2.5	25	65	5	SMOD	DISB#	Yes	Gaming Notebook GPU	QFN 5x5
AOZ5318UQI	New	2.5	25	65	5	SMOD	DISB#	Yes	DrMOS, GPU	QFN 5x5
AOZ5507QI		4.5	25	30	5	FCCM	FCCM	No	Notebook	QFN 3.5x4.5
AOZ5508QI		4.5	25	35	5	FCCM	FCCM	No	Notebook	QFN 3.5x4.5
AOZ5516QI		4.5	25	55	5	FCCM	FCCM	No	Notebook	QFN 5x5
AOZ5516QI-02		4.5	25	55	5	FCCM	FCCM	Yes	Notebook	QFN 5x5
AOZ5517QI		4.5	25	60	5	FCCM	FCCM	No	Notebook, Workstation	QFN 5x5
AOZ5517QI-02		4.5	25	60	5	FCCM	FCCM	Yes	Notebook	QFN 5x5
AOZ5518QI		4.5	25	65	5	FCCM	FCCM	No	Workstation	QFN 5x5
AOZ5610BQI	New	4.5	20	55	3	SMOD	DISB#	Yes	DrMOS, Gaming	QFN 5x5
AOZ5612BQI		4.5	20	60	3	SMOD	DISB#	Yes	Workstation, Game Console	QFN 5x5
AOZ5613BQI		4.5	20	65	3	SMOD	DISB#	Yes	Workstation, Game Console	QFN 5x5
AOZ5613QI		4.5	20	65	5	SMOD	DISB#	Yes	Workstation, Game Console	QFN 5x5
AOZ5616QI		4.5	25	55	3	SMOD	DISB#	Yes	Workstation	QFN 5x5
AOZ5616BQI	New	4.5	25	55	3	SMOD	DISB#	Yes	DrMOS, Notebook	QFN 5x5
AOZ5617QI		4.5	25	60	5	SMOD	DISB#	Yes	Desktop	QFN 5x5
AOZ5636QI		4.5	20	50	5	SMOD	DISB#	Yes	Gaming Notebook	QFN 5x5

Type C Protection Switches – ECPower™ Family

Part Number	Description	Ops V_{IN} (V)	Absolute Max V_{IN} and V_{OUT} (V)	R_{ON} (m Ω)	Current Flow	Fast Role Swap	OVP	Current Limit	RCB	Fault Response	Package
AOZ1324DI-01	22V ECPower 32m Ω Thermal Enhanced USB Sink Switch	3.4 - 22	28	32	Sink	No	5.8 / 24	No	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1324DI-02	22V ECPower 32m Ω Thermal Enhanced USB Sink Switch	3.4 - 22	28	32	Sink	No	5.8 / 24	No	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1327DI-01	22V ECPower 20m Ω Thermal Enhanced USB Sink Switch	3.4 - 22	28	20	Sink	No	5.8 / 24	No	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1327DI-02	22V ECPower 20m Ω Thermal Enhanced USB Sink Switch	3.4 - 22	28	20	Sink	No	5.8 / 24	No	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1353DI-01	5V ECPower 40m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	40	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1353DI-02	5V ECPower 40m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	40	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1353DI-03	5V ECPower 40m Ω Fast Shutdown USB Source Switch	3.4 - 5.5	28 on V_{OUT}	40	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1353DI-04	5V ECPower 40m Ω Fast Shutdown USB Source Switch	3.4 - 5.5	28 on V_{OUT}	40	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1353LI-01	5V ECPower 32m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	32	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP
AOZ1353LI-02	5V ECPower 32m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	32	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP
AOZ1353LI-03	5V ECPower 40m Ω Fast Shutdown USB Source Switch	3.4 - 5.5	28 on V_{OUT}	32	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP
AOZ1353LI-04	5V ECPower 40m Ω Fast Shutdown USB Source Switch	3.4 - 5.5	28 on V_{OUT}	32	Source	No	5.8	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP
AOZ1356DI-01	5V ECPower 39m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	39	Source	Yes	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1356DI-02	5V ECPower 39m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	39	Source	Yes	5.8	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1356DI-05	5V ECPower 39m Ω USB Source Switch	3.6 - 5.3	28 on V_{OUT}	39	Source	Yes	5.9	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1356DI-06	5V ECPower 39m Ω USB Source Switch	3.6 - 5.3	28 on V_{OUT}	39	Source	Yes	5.9	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1356LI-01	5V ECPower 34m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	34	Source	Yes	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP
AOZ1356LI-02	5V ECPower 34m Ω USB Source Switch	3.4 - 5.5	28 on V_{OUT}	34	Source	Yes	5.8	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP
AOZ1356LI-05	5V ECPower 34m Ω USB Source Switch	3.6 - 5.3	28 on V_{OUT}	34	Source	Yes	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP
AOZ1356LI-06	5V ECPower 34m Ω USB Source Switch	3.6 - 5.3	28 on V_{OUT}	34	Source	Yes	5.9	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP
AOZ1358LI-01	5V ECPower 34m Ω USB Ideal Diode Source Switch	3.8 - 5.5	28 on V_{OUT}	34	Source	Yes	5.8	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP
AOZ1373DI-01	22V ECPower 39m Ω USB Sink Switch	3.4 - 22	28	39	Sink	No	5.8 / 10.4 / 17.4 / 24	No	Ideal Diode	Auto Restart	DFN 3x3
AOZ1373DI-02	22V ECPower 39m Ω USB Sink Switch	3.4 - 22	28	39	Sink	No	5.8 / 10.4 / 17.4 / 24	No	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1375DI-01	22V ECPower 18m Ω Sink/Source Bi-directional Switch	3.4 - 23	28	18	Source or Sink	No	5.8 / 10.4 / 17.4 / 24	Adjustable (Source)	EN = L	Auto Restart	DFN 3x3
AOZ1375DI-02	22V ECPower 18m Ω Sink/Source Bi-directional Switch	3.4 - 23	28	18	Source or Sink	No	5.8 / 10.4 / 17.4 / 24	Adjustable (Source)	EN = L	Latch Off	DFN 3x3
AOZ1376DI-01	22V ECPower 20m Ω USB Sink Switch	3.4 - 22	28	20	Sink	No	5.8 / 10.4 / 17.4 / 24	No	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1376DI-02	22V ECPower 20m Ω USB Sink Switch	3.4 - 22	28	20	Sink	No	5.8 / 10.4 / 17.4 / 24	No	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ1380DI-01	22V ECPower 20m Ω Sink 39m Ω Source USB Combo Switch	3.4 - 22	28 on V_{BUS}	20 (Sink)/39 (Source)	Source or Sink	Yes	5.8 / 24	Adjustable (Source)	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x5.2
AOZ1381DI-01	22V ECPower 32m Ω Sink 39m Ω Source USB Combo Switch	3.4 - 22	28 on V_{BUS}	32 (Sink)/39 (Source)	Source or Sink	Yes	5.8 / 24	Adjustable (Source)	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x5.2
AOZ13984DI-02	22V ECPower 33m Ω USB Ideal Diode Sink Switch	3.4 - 22	28	33	Sink	No	5.8 / 24	No	Ideal Diode	Latch Off	DFN 3x3
AOZ13987DI-02	22V ECPower 20m Ω USB Ideal Diode Sink Switch	3.4 - 22	28	20	Sink	No	5.8 / 24	No	Ideal Diode	Latch Off	DFN 3x3
AOZ1374DI-01	23V ECPower 36m Ω USB Source Switch	3.4 - 23	28	36	Source	No	Adjustable	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
AOZ1374DI-02	23V ECPower 36m Ω USB Source Switch	3.4 - 23	28	36	Source	No	Adjustable	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
AOZ13929DI-01	New 23V ECPower 13.5mΩ Ideal Diode Smart Protection Switch	3.4 - 23	28	13.5	Sink	No		No	Ideal Diode	Auto Restart	DFN 3.2x5.5

Half-Bridge Driver (30-60V)

Part Number	Description	Min V _{IN} (V)	Max V _{IN} (V)	Internal LDO	100% HS Duty	OCP/SCP (A)	Max Output Current	MOSFET R _{DS(ON)} (mΩ)	Max Operating Temperature (°C)	Max Operating Frequency (kHz)	SR Control	Temp. Monitor	Fault Indicator	Package
AOZ32033AQI	Coil Driver	3.8	30	No	No	No	7	11	85	250	Yes	No	No	QFN 3x3
AOZ9510QI	Smart Motor Module	10.8	30	Yes	Yes	No	20	6	85	30	Yes	Yes	No	QFN 4x4

Digital Multiphase Controller

Part Number	Description	Max Phase Configuration	Interface Protocol	Pin Strap Configurations	Std Footprint	Compliance	Package
AOZ97774QE	Dual Digital Multiphase Controller	3+1	VR13.hc	15	Yes-Intel	Green Product	QFN 5x5

Hybrid Multiphase Controller

Part Number	Description	Max Phase Configuration	Interface Protocol	V _{in} Range Min (V)	V _{in} Range Max (V)	Fsw	Programmability	Power Stage Support	Software	Package
AOZ71026QI	<i>New</i> Dual Output Multiphase Hybrid IMVP Controller with SMBUS	4+2	SVID	15	24	400k-1.1MHz	SMBUS / MTP	DrMOS: AOZ5517QI, AOZ5516QI, AOZ5507QI, AOZ5508QI	AOS GUI	QFN 6x6

eFuse

Part Number	Description	Ops V _{IN} (V)	Absolute Max V _{OUT} (V)	R _{ON} (mΩ)	Max Current (A)	IMON	Current Limit	TRCB	Fault Response	Package
AOZ18101DI-01	<i>New</i> 14V 20mΩ Over-Voltage Protection eFuse	3.5 - 14	22	20	5	No	Adjustable	Yes	Auto Restart	DFN 3x3
AOZ18101DI-02	<i>New</i> 14V 20mΩ Over-Voltage Protection eFuse	3.5 - 14	22	20	5	No	Adjustable	Yes	Latch Off	DFN 3x3
AOZ18101DI-04	<i>New</i> 14V 20mΩ Over-Voltage Protection eFuse	3.5 - 14	22	20	5	No	Adjustable	No	Latch Off	DFN 3x3

TRANSIENT VOLTAGE SUPPRESSORS (TVS)

AOS provides a family of high-power surge, high-current surge, ultra-low capacitance Transient Voltage Suppressor (TVS), and Diode Array-Thunderbolt, SATA and Gigabit Ethernet ports. These products may be used to meet the ESD immunity

requirement of products that are designed for ESD protection of high-speed interfaces like HDMI2.0, USB3.1, IEEE1394, IEC61000-4-2, Level 4 for mobile, digital consumer, networking, and computing applications.

ESD TVS

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage		Channel Input Capacitance I/O - GND Typ. (pF)	Package
		Contact (kV)	Air (kV)		V_{RWM}	Max (V)		
AOZ8131DI-05L	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 24	± 24	1	5.0		1.25	DFN 1.0x0.6
AOZ8211DI-02	Low Capacitance Unidirectional Single TVS Diode	± 30	± 30	1	2.5		11.0	DFN 1.0x0.6
AOZ8211DI-03	Low Capacitance Unidirectional Single TVS Diode	± 30	± 30	1	3.3		11.0	DFN 1.0x0.6
AOZ8211DI-05	Low Capacitance Unidirectional Single TVS Diode	± 28	± 28	1	5.0		16.0	DFN 1.0x0.6
AOZ8211DI-12	Low Capacitance Unidirectional Single TVS Diode	± 28	± 28	1	12.0		30.0	DFN 1.0x0.6
AOZ8211DI-24	Low Capacitance Unidirectional Single TVS Diode	± 18	± 15	1	24.0		20.0	DFN 1.0x0.6
AOZ8231ADI-02	Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	2.5		5.5	DFN 1.0x0.6
AOZ8231ADI-03	Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	3.3		5.5	DFN 1.0x0.6
AOZ8231ADI-05	Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	5.0		13.0	DFN 1.0x0.6
AOZ8231ADI-08	Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	8.0		23.0	DFN 1.0x0.6
AOZ8231ADI-12	Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	12.0		13.0	DFN 1.0x0.6
AOZ8231ADI-24	Low Capacitance Bidirectional Single TVS Diode	± 15	± 18	1	24.0		12.0	DFN 1.0x0.6
AOZ8251ADI-03	Bidirectional Single TVS Diode	± 20	± 20	1	3.3		10.0	DFN 0.6x0.3
AOZ8251ADI-05	Bidirectional Single TVS Diode	± 20	± 20	1	5.0		10.0	DFN 0.6x0.3
AOZ8251BDI-05	Bidirectional Single TVS Diode	± 20	± 20	1	5.0		5.0	DFN 0.62x0.32
AOZ8251BDI-12	Bidirectional Single TVS Diode	± 20	± 20	1	12.0		4.5	DFN 0.62x0.32
AOZ8251BDI-16	Bidirectional Single TVS Diode	± 15	± 15	1	16.0		3.0	DFN 0.62x0.32
AOZ8650BDT-03	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	3.3		0.75	DFN 0.6x0.3A
AOZ8651BDT-03	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	3.3		0.5	DFN 0.6x0.3A
AOZ8651BDT-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	5.0		0.5	DFN 0.6x0.3A
AOZ8661BDT-03	Super Low Cap TVS	± 10	± 15	1	3.3		1.5	DFN 0.6x0.3A
AOZ8661BDT-05	Super Low Cap TVS	± 10	± 15	1	5.0		1.5	DFN 0.6x0.3A
AOZ8662BLT-03	1CH Bidirectional TVS in 01005 Package	± 30	± 30	1	3.3		1.2	WLCSP 0.43x0.23
AOZ8662BLT-05	1CH Bidirectional TVS in 01005 Package	± 30	± 30	1	5.0		1.2	WLCSP 0.43x0.23
AOZ8671BDT-03	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	3.3		1.0	DFN 0.6x0.3A
AOZ8671BDT-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1	5.0		1.0	DFN 0.6x0.3A
AOZ8811DI-05	Ultra-Low Capacitance Single TVS Diode	± 8	± 15	1	5.0		0.5	DFN 1.0x0.6
AOZ8811DT-03	Ultra-Low Capacitance Single TVS Diode	± 20	± 20	1	3.6		—	DFN 1.0x0.6
AOZ8821DI-05	Ultra-Low Capacitance Single TVS Diode	± 15	± 15	1	5.0		0.65	DFN 1.0x0.6
AOZ8831ADI-05	Ultra-Low Capacitance Single TVS Diode	± 25	—	1	5.0		0.3	DFN 1.6x1.0
AOZ8831DT-03	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1	3.6		0.22	DFN 1.0x0.6
AOZ8831DT-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1	5.0		0.22	DFN 1.0x0.6
AOZ8831DT-24	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 15	± 13	1	24		0.35	DFN 1.0x0.6
AOZ8850ADI-03	1CH Unidirectional 0.5pF TVS	± 8	± 15	1	3.3		0.5	DFN 0.6x0.3
AOZ8850ADI-05	1CH Unidirectional 0.5pF TVS	± 8	± 15	1	5.0		0.5	DFN 0.6x0.3
AOZ8851ADI-03	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1	3.3		0.22	DFN 0.62x0.32
AOZ8851ADI-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1	5.0		0.22	DFN 0.62x0.32
AOZ8851ADI-07	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1	7.0		0.22	DFN 0.62x0.32
AOZ8851ADI-18	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 8	± 15	1	18.0		0.4	DFN 0.62x0.32
AOZ8851ADI-20	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 8	± 15	1	20.0		0.4	DFN 0.62x0.32
AOZ8851ADI-24	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 8	± 15	1	24.0		0.4	DFN 0.62x0.32

ESD TVS (Continued)

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage		Channel Input Capacitance I/O - GND Typ. (pF)	Package
		Contact (kV)	Air (kV)		V _{RWM}	Max (V)		
AOZ8S203BLS-03	1CH 3.3V Bidirectional 0.15pF TVS	± 15	± 15	1	3.3		0.15	WLCSP 0.6x0.3
AOZ8S203BLS-05	1CH 5V Bidirectional 0.15pF TVS	± 15	± 15	1	5.0		0.15	WLCSP 0.6x0.3
AOZ8S204BLS-03	1CH 3.3V Bidirectional 0.15pF TVS	± 20	± 20	1	3.3		0.15	WLCSP 0.6x0.3
AOZ8S204BLS-05	1CH 5V Bidirectional 0.15pF TVS	± 20	± 20	1	5.0		0.15	WLCSP 0.6x0.3
AOZ8S205BLS-03	1CH 3.3V Bidirectional 0.075pF TVS	± 8	± 8	1	3.3		0.075	WLCSP 0.6x0.3
AOZ8S205BLS-05	1CH 5V Bidirectional 0.075pF TVS	± 8	± 8	1	5.0		0.075	WLCSP 0.6x0.3
AOZ8S303BLS-03	1CH Bidirectional 0.2pF TVS	± 20	± 20	1	3.3		0.2	WLCSP 0.6x0.3
AOZ8S303BLS-05	1CH Bidirectional 0.2pF TVS	± 20	± 20	1	5.0		0.2	WLCSP 0.6x0.3
AOZ8S303BLS-11	1CH 11V Bidirectional 0.2pF TVS	± 15	± 15	1	11.0		0.2	WLCSP 0.6x0.3
AOZ8S303BLS-24	1CH 24V Bidirectional 0.2pF TVS	± 20	± 20	1	24.0		0.2	WLCSP 0.6x0.3
AOZ8S305BLS-04	1CH 4V Bidirectional 0.5pF TVS	± 30	± 30	1	4.0		0.5	WLCSP 0.6x0.3
AOZ8S305BLS-05	1CH 4V Bidirectional 0.5pF TVS	± 30	± 30	1	5.0		0.5	WLCSP 0.6x0.3
AOZ8S305BLS-24	1CH 24V Bidirectional 0.5pF TVS	± 30	± 30	1	24.0		0.5	WLCSP 0.6x0.3
AOZ8S315BLS-03	1CH Bidirectional 0.2pF TVS	± 22	± 22	1	3.3		0.2	WLCSP 0.6x0.3
AOZ8S315BLS-05	1CH Bidirectional 0.2pF TVS	± 22	± 22	1	5.0		0.2	WLCSP 0.6x0.3
AOZ8S321UD4-03	4CH Unidirectional 0.28pF TVS	± 15	± 15	1	3.3		0.28	DFN 2.5x1.0
AOZ8S321UD4-05	4CH Unidirectional 0.28pF TVS	± 15	± 15	1	5.0		0.28	DFN 2.5x1.0
AOZ8S325BDS-40	1CH 40V Bidirectional TVS	± 8	± 8	1	40.0		0.35	DFN 1.0x0.6
AOZ8S501BDS-03	1CH Bidirectional High Surge TVS	± 30	± 30	1	3.3		45	DFN 1.0x0.6
AOZ8S501BDS-05	1CH Bidirectional 20A TVS	± 30	± 30	1	5.0		35	DFN 1.0x0.6
AOZ8S502BDS-03	2CH 3.3V Bidirectional 10A TVS	± 30	± 30	1	3.3		23	DFN 1.0x0.6
AOZ8S502BDS-05	1CH Bidirectional 10A TVS	± 30	± 30	1	5.0		18	DFN 1.0x0.6
AOZ8S503BDS-03	1CH 5V Bidirectional 20A TVS	± 30	± 30	1	3.3		16	DFN 0.6x0.3
AOZ8S503BDS-05	1CH 5V Bidirectional 20A TVS	± 30	± 30	1	5.0		9.0	DFN 0.6x0.3
AOZ8S507BDS-07	1CH Bidirectional 9A TVS	± 30	± 30	1	7.0		19.0	DFN 1.0x0.6
AOZ8S503BS2-05	2CH 5V Bidirectional 7A TVS	± 30	± 30	2	5.0		9.0	SOT-23
AOZ8S501BS2-05	2CH 5V Bidirectional 20A TVS	± 30	± 30	2	5.0		35	SOT-23
AOZ8S502BS2-05	2CH Bidirectional 10A TVS	± 30	± 30	2	5.0		18	SOT-23
AOZ8S502BS2-03	2CH 3.3V Bidirectional 12A TVS	± 30	± 30	2	3.3		22.0	SOT-23
AOZ8001DI	Ultra-Low Capacitance TVS Diode Array	± 8	± 15	2	5.5		1.0	DFN 1.6x1.6
AOZ8101CI	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	2	5.5		1.3	SOT-23
AOZ8212ACI-05	Low Capacitance Bidirectional TVS Diode Array	± 15	± 15	2	5.0		11.0	SOT-23
AOZ8212BCI-12	Low Capacitance Bidirectional TVS Diode Array	± 30	± 30	2	12.0		10.0	SOT-23
AOZ8212BCI-24	Low Capacitance Bidirectional TVS Diode Array	± 15	± 18	2	24.0		11.0	SOT-23
AOZ8802ADI	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	2	5.0		0.6	DFN 1.6x1.0
AOZ8822DI-05	Low Capacitance TVS Diode Array	± 15	± 15	2	5.0		0.55	DFN 1.0x0.6
AOZ8832DI-05	Low Capacitance Bidirectional TVS Diode Array	± 12	± 12	2	5.0		0.4	DFN 1.0x0.6
AOZ8000CI	Ultra-Low Capacitance TVS Diode Array	± 8	± 15	4	5.5		1.0	SOT-23
AOZ8102DI	Ultra-Low Capacitance TVS Diode Array	± 20	± 20	4	5.5		1.0	DFN 1.6x1.6
AOZ8105CI	4CH 5V Unidirectional 0.8pF TVS	± 24	± 30	4	5.5		0.8	SOT-23-6
AOZ8224CI-05	Low Capacitance Bidirectional TVS Diode Array	± 30	± 30	4	5.0		13.0	SOT-23
AOZ8654BLT-05	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4	5.5		2.5	AlphaDFN 0.925x0.525
AOZ8804ADI	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4	5.0		0.6	DFN 2.5x1.0
AOZ8808DI-03	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4	3.3		0.6	DFN 2.5x1.0
AOZ8808DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4	5.0		0.6	DFN 2.5x1.0
AOZ8809DI-03	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4	3.3		0.45	DFN 2.5x1.0
AOZ8809DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4	5.0		0.45	DFN 2.5x1.0
AOZ8809ADI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4	5.0		0.45	DFN 2.5x1.0

ESD TVS (Continued)

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V_{RWM} Max (V)	Channel Input Capacitance I/O - GND Typ. (pF)	Package
		Contact (kV)	Air (kV)				
AOZ8829ADI-03	4CH 3.3V Unidirectional 0.55pF TVS	± 30	± 30	4	3.3	0.55	DFN 2.5x1.0
AOZ8829ADI-05	4CH 5V Unidirectional 0.55pF TVS	± 30	± 30	4	5.0	0.55	DFN 2.5x1.0
AOZ8829DI-03	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4	3.3	0.6	DFN 2.5x1.0
AOZ8839DI-03	Ultra-Low Capacitance TVS Diode Array	± 12	± 15	4	3.3	0.3	DFN 2.5x1.0A
AOZ8839DI-05	Ultra-Low Capacitance TVS Diode Array	± 12	± 15	4	5.0	0.3	DFN 2.5x1.0A
AOZ8844DT	Ultra-Low Capacitance TVS Diode Array	± 15	± 20	4	5.0	0.5	DFN 1.3x0.8
AOZ8846DT-05	4CH Unidirectional 0.5pF TVS	± 12	± 15	4	5.0	0.3	DFN 1.3x0.8
AOZ8854DT-03	4CH 3.3V Unidirectional 0.7pF TVS	± 30	± 30	4	3.3	0.7	DFN 1.3x0.8
AOZ8858DI-03	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4	3.3	0.25	DFN 2.5x1.0A
AOZ8903CI	Ultra-Low Capacitance TVS Diode Array	± 15	± 20	4	5.5	0.5	SOT-23
AOZ8904CIL	Ultra-Low Capacitance TVS Diode Array	± 24	± 24	4	5.5	1.25	SOT-23
AOZ8906CI	Ultra-Low Capacitance TVS Diode Array	± 15	± 20	4	5.5	0.5	SOT-23
AOZ8S212UD4-03	4CH Unidirectional 0.2pF TVS	± 8	± 10	4	3.3	0.2	DFN 2.5x1.0
AOZ8S212UD4-05	4CH Unidirectional 0.2pF TVS	± 8	± 10	4	5.0	0.2	DFN 2.5x1.0
AOZ8S306BD4-05	4CH Bidirectional Ultra-Low Capacitance TVS	± 11	± 11	4	5.5	0.25	DFN 2.0x1.0
AOZ8S312BD4-03	4CH Bidirectional 0.28pF TVS	± 15	± 15	4	3.3	0.28	DFN 2.5x1.0
AOZ8S312BD4-05	4CH Bidirectional 0.28pF TVS	± 15	± 15	4	5.0	0.28	DFN 2.5x1.0
AOZ8806DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	6	5.0	0.6	DFN 3.3x1.3
AOZ8936DI	7 Channel Combo TVS for USB	± 24	± 30	7	5.0	0.4	DFN 4.1x2.0
AOZ8937DI	7 Channel Combo TVS for USB	± 12	± 15	7	5.0	0.3	DFN 4.1x2.0

High-Current Surge TVS

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V_{RWM} Max (V)	IEC 61000-4-5 (Peak Pluse Current) Ipp max. (A)	IEC 61000-4-5 (8/20us) (Peak Pluse Power) Ppp max. (W)	Channel Input Capacitance I/O - GND Typ. (pF)	Package
		Contact (kV)	Air (kV)						
AOZ8310DI-02	1CH 2.5V Unidirectional High Surge TVS	± 30	± 30	1	2.5	75	1100	100	DFN 1.6x1.0-2L
AOZ8310ADI-04	Battery TVS	± 30	± 30	1	4.7	190	1500	600	DFN 1.6x1.0A
AOZ8310DI-05	1CH 5V Unidirectional High Surge TVS	± 30	± 30	1	5.0	85	1500	675	DFN 1.6x1.0-2L
AOZ8310DI-08	1CH 8V Unidirectional High Surge TVS	± 30	± 30	1	8.0	70	1500	425	DFN 1.6x1.0-2L
AOZ8310DI-09	1CH 9V Unidirectional High Surge TVS	± 30	± 30	1	9.0	65	1500	385	DFN 1.6x1.0
AOZ8310DI-12	1CH 12V Unidirectional High Surge TVS	± 30	± 30	1	12.0	45	1500	275	DFN 1.6x1.0-2L
AOZ8310DI-18	1CH 18V Unidirectional High Surge TVS	± 30	± 30	1	18.0	35	1200	200	DFN 1.6x1.0-2L
AOZ8310DI-20	1CH 20V Unidirectional High Surge TVS	± 30	± 30	1	20.0	32	1200	165	DFN 1.6x1.0-2L
AOZ8310DI-26	1CH 26V Unidirectional High Surge TVS	± 30	± 30	1	26.0	25	1200	150	DFN 1.6x1.0-2L
AOZ8310DI-36	1CH 36V Unidirectional High Surge TVS	± 30	± 30	1	36.0	22	1500	130	DFN 1.6x1.0-2L
AOZ8331DI-03	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	1	3.3	35	85	4.5	DFN 1.0x0.6
AOZ8331DI-04	High-Current Surge TVS	± 30	± 30	1	4.8	50	100	—	DFN 1.0x0.6
AOZ8331DI-05	1CH 5V Bidirectional TVS	± 30	± 30	1	5.5	35	—	55	DFN 1.0x0.6
AOZ8336DI-03	High-Current Surge TVS	± 30	± 30	1	3.3	50	100	—	DFN 1.0x0.6
AOZ8S515UDS-20	1CH 20V Unidirectional High Surge TVS	± 30	± 30	1	20.0	30	1200	200	DFN 1.6x1.0-2L
AOZ8360DI-07	1CH 7V Unidirectional High Surge TVS	± 30	± 30	1	7.5	300	4250	2700	DFN 2.0x2.0-3L
AOZ8360DI-12	1CH 12V Unidirectional High Surge TVS	± 30	± 30	1	12.0	220	4250	1350	DFN 2.0x2.0-3L
AOZ8360DI-15	1CH 15V Unidirectional High Surge TVS	± 30	± 30	1	15.0	180	4250	1100	DFN 2.0x2.0-3L
AOZ8360DI-18	1CH 18V Unidirectional High Surge TVS	± 30	± 30	1	18.0	165	4250	850	DFN 2.0x2.0-3L
AOZ8360DI-20	1CH 20V Unidirectional High Surge TVS	± 30	± 30	1	20.0	135	4250	850	DFN 2.0x2.0-3L
AOZ8360DI-22	1CH 22V Unidirectional High Surge TVS	± 30	± 30	1	22.0	135	4250	800	DFN 2.0x2.0-3L
AOZ8360DI-24	1CH 24V Unidirectional High Surge TVS	± 30	± 30	1	24.0	110	4250	730	DFN 2.0x2.0-3L
AOZ8621UNI-05	1CH 5V Unidirectional High Surge TVS	± 30	± 30	1	5.0	380	3800	3000	DFN 2.0x2.0-3L
AOZ8621UNI-07	1CH 7V Unidirectional High Surge TVS	± 30	± 30	1	7.5	320	3800	2100	DFN 2.0x2.0-3L
AOZ8621UNI-12	1CH 12V Unidirectional High Surge TVS	± 30	± 30	1	12.0	190	3800	1100	DFN 2.0x2.0-3L
AOZ8621UNI-15	1CH 15V Unidirectional High Surge TVS	± 30	± 30	1	15.0	140	3800	880	DFN 2.0x2.0-3L
AOZ8621UNI-18	1CH 18 V Unidirectional High Surge TVS	± 30	± 30	1	18.0	120	3800	750	DFN 2.0x2.0-3L
AOZ8621UNI-20	1CH 20V Unidirectional High Surge TVS	± 30	± 30	1	20.0	110	3800	660	DFN 2.0x2.0-3L
AOZ8621UNI-22	1CH 22V Unidirectional High Surge TVS	± 30	± 30	1	22.0	100	3800	630	DFN 2.0x2.0-3L
AOZ8302ACI-05	TVS Diode Array	± 30	± 30	2	5.0	32	20	14.0	SOT-23
AOZ8302ACI-12	TVS Diode Array	± 30	± 30	2	12.0	24	20	19.0	SOT-23
AOZ8300CI-03	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4	3.3	25	2.5	2.6	SOT-23
AOZ8318DI	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4	2.5	25	3.5	3.5	DFN 2.6x2.6
AOZ8915CI	Ultra-Low Capacitance TVS Diode Array	± 24	± 30	4	5.0	12	0.5	12.0	SOT-23
AOZ8328DI	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	8	2.5	32	2.8	4.5	DFN 3.0x2.0

High-Power Surge TVS

Part Number		Marking Code		Test Current IT (mA)	Breakdown Voltage VBR (B) @IT		Reverse Standoff Voltage V _{RWM} (V)	Maximum Clamping Voltage @I _{pp} (A)	Maximum Peak Pulse Current I _{pp} (A)	Maximum Reverse Leakage @V _{RWM} IR (μA)
Uni-Polar	Bi-Polar	UNI	BI		MIN	MAX				
SMBJ5.0A	SMBJ5.0CA	KE	AE	10	6.40	7.00	5.0	9.2	67.20	800.0
SMBJ6.0A	SMBJ6.0CA	KG	AG	10	6.67	7.37	6.0	10.3	60.00	800.0
SMBJ6.5A	SMBJ6.5CA	KK	AK	10	7.22	7.98	6.5	11.2	55.20	500.0
SMBJ7.0A	SMBJ7.0CA	KM	AM	10	7.78	8.60	7.0	12.0	51.50	200.0
SMBJ7.5A	SMBJ7.5CA	KP	AP	1	8.33	9.21	7.5	12.9	47.90	100.0
SMBJ8.0A	SMBJ8.0CA	KR	AR	1	8.89	9.83	8.0	13.6	45.40	50.0
SMBJ8.5A	SMBJ8.5CA	KT	AT	1	9.44	10.40	8.5	14.4	42.90	20.0
SMBJ9.0A	SMBJ9.0CA	KV	AV	1	10.00	11.10	9.0	15.4	40.10	10.0
SMBJ10A	SMBJ10CA	KX	AX	1	11.10	12.30	10.0	17.0	36.40	5.0
SMBJ11A	SMBJ11CA	KZ	AZ	1	12.20	13.50	11.0	18.2	34.00	1.0
SMBJ12A	SMBJ12CA	LE	BE	1	13.30	14.70	12.0	19.9	31.10	1.0
SMBJ13A	SMBJ13CA	LG	BG	1	14.40	15.90	13.0	21.5	28.70	1.0
SMBJ14A	SMBJ14CA	LK	BK	1	15.60	17.20	14.0	23.2	26.60	1.0
SMBJ15A	SMBJ15CA	LM	BM	1	16.70	18.50	15.0	24.4	25.30	1.0
SMBJ16A	SMBJ16CA	LP	BP	1	17.80	19.70	16.0	26.0	23.80	1.0
SMBJ17A	SMBJ17CA	LR	BR	1	18.90	20.90	17.0	27.6	22.40	1.0
SMBJ18A	SMBJ18CA	LT	BT	1	20.00	22.10	18.0	29.2	21.20	1.0
SMBJ20A	SMBJ20CA	LV	BV	1	22.20	24.50	20.0	32.4	19.10	1.0
SMBJ22A	SMBJ22CA	LX	BX	1	24.40	26.90	22.0	35.5	17.40	1.0
SMBJ24A	SMBJ24CA	LZ	BZ	1	26.70	29.50	24.0	38.9	15.90	1.0
SMBJ26A	SMBJ26CA	ME	CE	1	28.90	31.90	26.0	42.1	14.70	1.0
SMBJ28A	SMBJ28CA	MG	CG	1	31.10	34.40	28.0	45.4	13.60	1.0
SMBJ30A	SMBJ30CA	MK	CK	1	33.30	36.80	30.0	48.4	12.80	1.0
SMBJ33A	SMBJ33CA	MM	CM	1	36.70	40.60	33.0	53.3	11.60	1.0
SMBJ36A	SMBJ36CA	MP	CP	1	40.00	44.20	36.0	58.1	10.60	1.0
SMBJ40A	SMBJ40CA	MR	CR	1	44.40	49.10	40.0	64.5	9.60	1.0
SMBJ43A	SMBJ43CA	MT	CT	1	47.80	52.80	43.0	69.4	8.90	1.0
SMBJ45A	SMBJ45CA	MV	CV	1	50.00	55.30	45.0	72.7	8.50	1.0
SMBJ48A	SMBJ48CA	MX	CX	1	53.30	58.90	48.0	77.4	8.00	1.0
SMBJ51A	SMBJ51CA	MZ	CZ	1	56.70	62.70	51.0	82.4	7.50	1.0
SMBJ54A	SMBJ54CA	NE	DE	1	60.00	66.30	54.0	87.1	7.10	1.0
SMBJ58A	SMBJ58CA	NG	DG	1	64.40	71.20	58.0	93.6	6.60	1.0
SMBJ60A	SMBJ60CA	NK	DK	1	66.70	73.70	60.0	96.8	6.40	1.0
SMBJ64A	SMBJ64CA	NM	DM	1	71.10	78.60	64.0	103.0	6.00	1.0
SMBJ70A	SMBJ70CA	NP	DP	1	77.80	86.00	70.0	113.0	5.50	1.0
SMBJ75A	SMBJ75CA	NR	DR	1	83.30	92.10	75.0	121.0	5.10	1.0
SMBJ78A	SMBJ78CA	NT	DT	1	86.70	95.80	78.0	126.0	4.90	1.0
SMBJ85A	SMBJ85CA	NV	DV	1	94.40	104.00	85.0	137.0	4.50	1.0
SMBJ90A	SMBJ90CA	NX	DX	1	100.00	111.00	90.0	146.0	4.20	1.0
SMBJ100A	SMBJ100CA	NZ	DZ	1	111.00	123.00	100.0	162.0	3.80	1.0
SMBJ110A	SMBJ110CA	PE	EE	1	122.00	135.00	110.0	177.0	3.50	1.0
SMBJ120A	SMBJ120CA	PG	EG	1	133.00	147.00	120.0	193.0	3.20	1.0
SMBJ130A	SMBJ130CA	PK	EK	1	144.00	159.00	130.0	209.0	3.00	1.0
SMBJ150A	SMBJ150CA	PM	EM	1	167.00	185.00	150.0	243.0	2.50	1.0
SMBJ160A	SMBJ160CA	PP	EP	1	178.00	197.00	160.0	259.0	2.35	1.0
SMBJ170A	SMBJ170CA	PR	ER	1	189.00	209.00	170.0	275.0	2.20	1.0
SMBJ180A	SMBJ180CA	PT	ET	1	201.00	222.00	180.0	292.0	2.10	1.0
SMBJ200A	SMBJ200CA	PV	EV	1	224.00	247.00	200.0	324.0	1.90	1.0
SMBJ220A	SMBJ220CA	PX	EX	1	246.00	272.00	220.0	356.0	1.70	1.0

High-Power Surge TVS (Continued)

Part Number		Marking Code		Test Current IT (mA)	Breakdown Voltage VBR (B) @IT		Reverse Standoff Voltage VRWM (V)	Maximum Clamping Voltage @Ipp (A)	Maximum Peak Pulse Current Ipp (A)	Maximum Reverse Leakage @VRWM IR (µA)
Uni-Polar	Bi-Polar	UNI	BI		MIN	MAX				
SMBJ250A	SMBJ250CA	PZ	EZ	1	279.00	309.00	250.0	405.0	1.50	1.0
SMBJ300A	SMBJ300CA	QE	FE	1	335.00	371.00	300.0	486.0	1.30	1.0
SMBJ350A	SMBJ350CA	QG	FG	1	391.00	432.00	350.0	567.0	1.10	1.0
SMBJ400A	SMBJ400CA	QK	FK	1	447.00	494.00	400.0	648.0	0.93	1.0
SMBJ440A	SMBJ440CA	QM	FM	1	492.00	543.00	440.0	713.0	0.90	1.0
SMCJ5.0A	SMCJ5.0CA	GDE	BDE	10	6.40	7.00	5.0	9.2	167.9	800.0
SMCJ6.0A	SMCJ6.0CA	GDG	BDG	10	6.67	7.37	6.0	10.3	150.0	800.0
SMCJ6.5A	SMCJ6.5CA	GDK	BDK	10	7.22	7.98	6.5	11.2	137.9	500.0
SMCJ7.0A	SMCJ7.0CA	GDM	BDM	10	7.78	8.60	7.0	12.0	128.8	200.0
SMCJ7.5A	SMCJ7.5CA	GDP	BDP	1	8.33	9.21	7.5	12.9	119.8	100.0
SMCJ8.0A	SMCJ8.0CA	GDR	BDR	1	8.89	9.83	8.0	13.6	113.6	50.0
SMCJ8.5A	SMCJ8.5CA	GDT	BDT	1	9.44	10.40	8.5	14.4	107.3	20.0
SMCJ9.0A	SMCJ9.0CA	GDV	BDV	1	10.00	11.10	9.0	15.4	100.3	10.0
SMCJ10A	SMCJ10CA	GDX	BDX	1	11.10	12.30	10.0	17.0	90.9	5.0
SMCJ11A	SMCJ11CA	GDZ	BDZ	1	12.20	13.50	11.0	18.2	84.9	1.0
SMCJ12A	SMCJ12CA	GEE	BEE	1	13.30	14.70	12.0	19.9	77.6	1.0
SMCJ13A	SMCJ13CA	GEG	BEG	1	14.40	15.90	13.0	21.5	71.9	1.0
SMCJ14A	SMCJ14CA	GEK	BEK	1	15.60	17.20	14.0	23.2	66.6	1.0
SMCJ15A	SMCJ15CA	GEM	BEM	1	16.70	18.50	15.0	24.4	63.3	1.0
SMCJ16A	SMCJ16CA	GEP	BEP	1	17.80	19.70	16.0	26.0	59.4	1.0
SMCJ17A	SMCJ17CA	GER	BER	1	18.90	20.90	17.0	27.6	56.0	1.0
SMCJ18A	SMCJ18CA	GET	BET	1	20.00	22.10	18.0	29.2	52.9	1.0
SMCJ20A	SMCJ20CA	GEV	BEV	1	22.20	24.50	20.0	32.4	47.7	1.0
SMCJ22A	SMCJ22CA	GEX	BEX	1	24.40	26.90	22.0	35.5	43.5	1.0
SMCJ24A	SMCJ24CA	GEZ	BEZ	1	26.70	29.50	24.0	38.9	39.7	1.0
SMCJ26A	SMCJ26CA	GFE	BFE	1	28.90	31.90	26.0	42.1	36.7	1.0
SMCJ28A	SMCJ28CA	GFG	BFG	1	31.10	34.40	28.0	45.4	34.0	1.0
SMCJ30A	SMCJ30CA	GFK	BFK	1	33.30	36.80	30.0	48.4	31.9	1.0
SMCJ33A	SMCJ33CA	GFM	BFM	1	36.70	40.60	33.0	53.3	29.0	1.0
SMCJ36A	SMCJ36CA	GFP	BFP	1	40.00	44.20	36.0	58.1	26.6	1.0
SMCJ40A	SMCJ40CA	GFR	BFR	1	44.40	49.10	40.0	64.5	24.0	1.0
SMCJ43A	SMCJ43CA	GFT	BFT	1	47.80	52.80	43.0	69.4	22.3	1.0
SMCJ45A	SMCJ45CA	GFV	BFV	1	50.00	55.30	45.0	72.7	21.3	1.0
SMCJ48A	SMCJ48CA	GFX	BFX	1	53.30	58.90	48.0	77.4	20.0	1.0
SMCJ51A	SMCJ51CA	GFZ	BFZ	1	56.70	62.70	51.0	82.4	18.8	1.0
SMCJ54A	SMCJ54CA	GGE	BGE	1	60.00	66.30	54.0	87.1	17.7	1.0
SMCJ58A	SMCJ58CA	GGG	BGG	1	64.40	71.20	58.0	93.6	16.5	1.0
SMCJ60A	SMCJ60CA	GGK	BGK	1	66.70	73.70	60.0	96.8	16.0	1.0
SMCJ64A	SMCJ64CA	GGM	BGM	1	71.10	78.60	64.0	103.0	15.0	1.0
SMCJ70A	SMCJ70CA	GGP	BGP	1	77.80	86.00	70.0	113.0	13.7	1.0
SMCJ75A	SMCJ75CA	GGR	BGR	1	83.30	92.10	75.0	121.0	12.8	1.0
SMCJ78A	SMCJ78CA	GGT	BGT	1	86.70	95.80	78.0	126.0	12.3	1.0
SMCJ85A	SMCJ85CA	GGV	BGV	1	94.40	104.00	85.0	137.0	11.3	1.0
SMCJ90A	SMCJ90CA	GGX	BGX	1	100.00	111.00	90.0	146.0	10.6	1.0
SMCJ100A	SMCJ100CA	GGZ	BGZ	1	111.00	123.00	100.0	162.0	9.5	1.0
SMCJ110A	SMCJ110CA	GHE	BHE	1	122.00	135.00	110.0	177.0	8.7	1.0
SMCJ120A	SMCJ120CA	GHG	BHG	1	133.00	147.00	120.0	193.0	8.0	1.0
SMCJ130A	SMCJ130CA	GHK	BHK	1	144.00	159.00	130.0	209.0	7.4	1.0
SMCJ150A	SMCJ150CA	GHM	BHM	1	167.00	185.00	150.0	243.0	6.4	1.0
SMCJ160A	SMCJ160CA	GHP	BHP	1	178.00	197.00	160.0	259.0	6.0	1.0

High-Power Surge TVS (Continued)

Part Number		Marking Code		Test Current IT (mA)	Breakdown Voltage VBR (B) @IT		Reverse Standoff Voltage V _{RWM} (V)	Maximum Clamping Voltage @I _{pp} (A)	Maximum Peak Pulse Current I _{pp} (A)	Maximum Reverse Leakage @V _{RWM} IR (μA)
Uni-Polar	Bi-Polar	UNI	BI		MIN	MAX				
SMCJ170A	SMCJ170CA	GHR	BHR	1	189.00	209.00	170.0	275.0	5.6	1.0
SMCJ180A	SMCJ180CA	GHT	BHT	1	201.00	222.00	180.0	292.0	5.2	1.0
SMCJ200A	SMCJ200CA	GHV	BHV	1	224.00	247.00	200.0	324.0	4.7	1.0
SMCJ220A	SMCJ220CA	GHX	BHX	1	246.00	272.00	220.0	356.0	4.3	1.0
SMCJ250A	SMCJ250CA	GHZ	BHZ	1	279.00	309.00	250.0	405.0	3.8	1.0
SMCJ300A	SMCJ300CA	GJE	BJE	1	335.00	371.00	300.0	486.0	3.1	1.0
SMCJ350A	SMCJ350CA	GJG	BJG	1	391.00	432.00	350.0	567.0	2.7	1.0
SMCJ400A	SMCJ400CA	GJK	BJK	1	447.00	494.00	400.0	648.0	2.4	1.0
SMCJ440A	SMCJ440CA	GJM	BJM	1	492.00	543.00	440.0	713.0	2.2	1.0
SMDJ5.0A	SMDJ5.0CA	RDE	DDE	10	6.4	7	5	9.2	326.1	800
SMDJ6.0A	SMDJ6.0CA	RDG	DDG	10	6.67	7.37	6	10.3	291.3	800
SMDJ6.5A	SMDJ6.5CA	RDK	DDK	10	7.22	7.98	6.5	11.2	267.9	500
SMDJ7.0A	SMDJ7.0CA	PDM	DDM	10	7.78	8.6	7	12	250	200
SMDJ7.5A	SMDJ7.5CA	PDP	DDP	1	8.33	9.21	7.5	12.9	232.6	100
SMDJ8.0A	SMDJ8.0CA	PDR	DDR	1	8.89	9.83	8	13.6	220.6	50
SMDJ8.5A	SMDJ8.5CA	PDT	DDT	1	9.44	10.4	8.5	14.4	208.3	20
SMDJ9.0A	SMDJ9.0CA	PDV	DDV	1	10	11.1	9	15.4	194.8	10
SMDJ10A	SMDJ10CA	PDX	DDX	1	11.1	12.3	10	17	176.5	5
SMDJ11A	SMDJ11CA	PDZ	DDZ	1	12.2	13.5	11	18.2	164.8	2
SMDJ12A	SMDJ12CA	PEE	DEE	1	13.3	14.7	12	19.9	150.8	2
SMDJ13A	SMDJ13CA	PEG	DEG	1	14.4	15.9	13	21.5	139.5	2
SMDJ14A	SMDJ14CA	PEK	DEK	1	15.6	17.2	14	23.2	129.3	2
SMDJ15A	SMDJ15CA	PEM	DEM	1	16.7	18.5	15	24.4	123	2
SMDJ16A	SMDJ16CA	PEP	DEP	1	17.8	19.7	16	26	115.4	2
SMDJ17A	SMDJ17CA	PER	DER	1	18.9	20.9	17	27.6	108.7	2
SMDJ18A	SMDJ18CA	PET	DET	1	20	22.1	18	29.2	102.7	2
SMDJ20A	SMDJ20CA	PEV	DEV	1	22.2	24.5	20	32.4	92.6	2
SMDJ21A	SMDJ21CA	PHV	DHV	1	23.31	25.73	21	34.1	88	2
SMDJ22A	SMDJ22CA	PEX	DEX	1	24.4	26.9	22	35.5	84.5	2
SMDJ24A	SMDJ24CA	PEZ	DEZ	1	26.7	29.5	24	38.9	77.1	2
SMDJ26A	SMDJ26CA	PFE	DFE	1	28.9	31.9	26	42.1	71.3	2
SMDJ28A	SMDJ28CA	PFG	DFG	1	31.1	34.4	28	45.4	66.1	2
SMDJ30A	SMDJ30CA	PFK	DFK	1	33.3	36.8	30	48.4	62	2
SMDJ33A	SMDJ33CA	PFM	DFM	1	36.7	40.6	33	53.3	56.3	2
SMDJ36A	SMDJ36CA	PFP	DFP	1	40	44.2	36	58.1	51.6	2
SMDJ40A	SMDJ40CA	PFR	DFR	1	44.4	49.1	40	64.5	46.5	2
SMDJ43A	SMDJ43CA	PFT	DFT	1	47.8	52.8	43	69.4	43.2	2
SMDJ45A	SMDJ45CA	PFV	DFV	1	50	55.3	45	72.7	41.3	2
SMDJ48A	SMDJ48CA	PFX	DFX	1	53.3	58.9	48	77.4	38.8	2
SMDJ51A	SMDJ51CA	PFZ	DFZ	1	56.7	62.7	51	82.4	36.4	2
SMDJ54A	SMDJ54CA	RGE	DGE	1	60	66.3	54	87.1	34.4	2
SMDJ58A	SMDJ58CA	PGG	DGG	1	64.4	71.2	58	93.6	32.1	2
SMDJ60A	SMDJ60CA	PGK	DGK	1	66.7	73.7	60	96.8	31	2
SMDJ64A	SMDJ64CA	PGM	DGM	1	71.1	78.6	64	103	29.1	2
SMDJ70A	SMDJ70CA	PGP	DGP	1	77.8	86	70	113	26.5	2
SMDJ75A	SMDJ75CA	PGR	DGR	1	83.3	92.1	75	121	24.8	2
SMDJ78A	SMDJ78CA	PGT	DGT	1	86.7	95.8	78	126	23.8	2
SMDJ85A	SMDJ85CA	PGV	DGV	1	94.4	104	85	137	21.9	2
SMDJ90A	SMDJ90CA	PGX	DGX	1	100	111	90	146	20.5	2

High-Power Surge TVS (Continued)

Part Number		Marking Code		Test Current IT (mA)	Breakdown Voltage VBR (B) @IT		Reverse Standoff Voltage VRWM (V)	Maximum Clamping Voltage @Ipp (A)	Maximum Peak Pulse Current Ipp (A)	Maximum Reverse Leakage @VRWM IR (µA)
Uni-Polar	Bi-Polar	UNI	BI		MIN	MAX				
SMDJ100A	SMDJ100CA	PGZ	DGZ		1	111				
SMDJ110A	SMDJ110CA	PHE	DHE	1	122	135	110	177	16.9	2
SMDJ120A	SMDJ120CA	PHG	DHG	1	133	147	120	193	15.5	2
SMDJ130A	SMDJ130CA	PHK	DHK	1	144	159	130	209	14.4	2
SMDJ150A	SMDJ150CA	PHM	DHM	1	167	185	150	243	12.3	2
SMDJ160A	SMDJ160CA	PHP	DHP	1	178	197	160	259	11.6	2
SMDJ170A	SMDJ170CA	PHR	DHR	1	189	209	170	275	10.9	2
SMDJ180A	SMDJ180CA	PHT	DHT	1	201	222	180	292	10.3	2
SMDJ200A	SMDJ200CA	PHX	DHX	1	224	247	200	324	9.3	2
SMDJ220A	SMDJ220CA	PHZ	DHZ	1	246	272	220	356	8.4	2
SMDJ250A	SMDJ250CA	PIE	DIE	1	279	309	250	405	7.5	2
5.0SMDJ5.0A	5.0SMDJ5.0CA	5RDE	5DDE	10	6.40	7.00	5.0	9.2	543.6	1050.0
5.0SMDJ6.0A	5.0SMDJ6.0CA	5RDG	5DDG	10	6.67	7.37	6.0	10.3	485.5	1050.0
5.0SMDJ6.5A	5.0SMDJ6.5CA	5RDK	5DDK	10	7.22	7.98	6.5	11.2	446.5	750.0
5.0SMDJ7.0A	5.0SMDJ7.0CA	5PDM	5DDM	10	7.78	8.60	7.0	12.0	416.8	300.0
5.0SMDJ7.5A	5.0SMDJ7.5CA	5PDP	5DDP	1	8.33	9.21	7.5	12.9	387.7	150.0
5.0SMDJ8.0A	5.0SMDJ8.0CA	5PDR	5DDR	1	8.89	9.83	8.0	13.6	367.7	70.0
5.0SMDJ8.5A	5.0SMDJ8.5CA	5PDT	5DDT	1	9.44	10.40	8.5	14.4	347.3	30.0
5.0SMDJ9.0A	5.0SMDJ9.0CA	5PDV	5DDV	1	10.00	11.10	9.0	15.4	324.8	12.0
5.0SMDJ10A	5.0SMDJ10CA	5PDX	5DDX	1	11.10	12.30	10.0	17.0	294.2	6.0
5.0SMDJ11A	5.0SMDJ11CA	5PDZ	5DDZ	1	12.20	13.50	11.0	18.2	274.8	2.0
5.0SMDJ12A	5.0SMDJ12CA	5PEP	5BEP	1	13.30	14.70	12.0	19.9	252.0	2.0
5.0SMDJ13A	5.0SMDJ13CA	5PEQ	5BEQ	1	14.40	15.90	13.0	21.5	233.0	2.0
5.0SMDJ14A	5.0SMDJ14CA	5PER	5BER	1	15.60	17.20	14.0	23.2	216.0	2.0
5.0SMDJ15A	5.0SMDJ15CA	5PES	5BES	1	16.70	18.50	15.0	24.4	205.0	2.0
5.0SMDJ16A	5.0SMDJ16CA	5PET	5BET	1	17.80	19.70	16.0	26.0	193.0	2.0
5.0SMDJ17A	5.0SMDJ17CA	5PEU	5BEU	1	18.90	20.90	17.0	27.6	181.5	2.0
5.0SMDJ18A	5.0SMDJ18CA	5PEV	5BEV	1	20.00	22.10	18.0	29.2	172.0	2.0
5.0SMDJ20A	5.0SMDJ20CA	5PEW	5BEW	1	22.20	24.50	20.0	32.4	159.0	2.0
5.0SMDJ22A	5.0SMDJ22CA	5PEX	5BEX	1	24.40	26.90	22.0	35.5	145.1	2.0
5.0SMDJ24A	5.0SMDJ24CA	5PEZ	5BEZ	1	26.70	29.50	24.0	38.9	132.4	2.0
5.0SMDJ26A	5.0SMDJ26CA	5PFE	5BFE	1	28.90	31.90	26.0	42.1	122.3	2.0
5.0SMDJ28A	5.0SMDJ28CA	5PFG	5BFG	1	31.10	34.40	28.0	45.4	113.4	2.0
5.0SMDJ30A	5.0SMDJ30CA	5PFK	5BFK	1	33.30	36.80	30.0	48.4	106.4	2.0
5.0SMDJ33A	5.0SMDJ33CA	5PFM	5BFM	1	36.70	40.60	33.0	53.3	96.6	2.0
5.0SMDJ36A	5.0SMDJ36CA	5PFP	5BFP	1	40.00	44.20	36.0	58.1	88.6	2.0
5.0SMDJ40A	5.0SMDJ40CA	5PFR	5BFR	1	44.40	49.10	40.0	64.5	79.8	2.0
5.0SMDJ43A	5.0SMDJ43CA	5PFT	5BFT	1	47.80	52.80	43.0	69.4	74.2	2.0
5.0SMDJ45A	5.0SMDJ45CA	5PFV	5BFV	1	50.00	55.30	45.0	72.7	70.8	2.0
5.0SMDJ48A	5.0SMDJ48CA	5PFX	5BFX	1	53.30	58.90	48.0	77.4	66.5	2.0
5.0SMDJ51A	5.0SMDJ51CA	5PFZ	5BFZ	1	56.70	62.70	51.0	82.4	62.5	2.0
5.0SMDJ54A	5.0SMDJ54CA	5RGE	5BGE	1	60.00	66.30	54.0	87.1	59.1	2.0
5.0SMDJ58A	5.0SMDJ58CA	5PGG	5BGG	1	64.40	71.20	58.0	93.6	55.0	2.0
5.0SMDJ60A	5.0SMDJ60CA	5PGK	5BGK	1	66.70	73.70	60.0	96.8	53.2	2.0
5.0SMDJ64A	5.0SMDJ64CA	5PGM	5BGM	1	71.10	78.60	64.0	103.0	50.0	2.0
5.0SMDJ70A	5.0SMDJ70CA	5PGP	5BGP	1	77.80	86.00	70.0	113.0	45.6	2.0
5.0SMDJ75A	5.0SMDJ75CA	5PGR	5BGR	1	83.30	92.10	75.0	121.0	42.6	2.0
5.0SMDJ78A	5.0SMDJ78CA	5PGT	5BGT	1	86.70	95.80	78.0	126.0	40.9	2.0
5.0SMDJ85A	5.0SMDJ85CA	5PGV	5BGV	1	94.40	104.00	85.0	137.0	37.6	2.0
5.0SMDJ90A	-	5PGX	-	1	100.00	111.00	90.0	146.0	35.3	2.0

High-Power Surge TVS (Continued)

Part Number	Uni-Polar	Bi-Polar	Marking Code		Test Current IT (mA)	Breakdown Voltage VBR (B) @IT		Reverse Standoff Voltage V _{RWM} (V)	Maximum Clamping Voltage @I _{pp} (A)	Maximum Peak Pulse Current I _{pp} (A)	Masimum Reverse Leakage @V _{RWM} IR (μA)
			UNI	BI		MIN	MAX				
5.0SMDJ100A	-	-	5PGZ	-	1	111.00	123.00	100.0	162.0	31.8	2.0
5.0SMDJ110A	-	-	5PHE	-	1	122.00	135.00	110.0	177.0	29.1	2.0
5.0SMDJ120A	-	-	5PHG	-	1	133.00	147.00	120.0	193.0	26.7	2.0
5.0SMDJ130A	-	-	5PHK	-	1	144.00	159.00	130.0	209.0	24.6	2.0
5.0SMDJ150A	-	-	5PHM	-	1	167.00	185.00	150.0	243.0	21.2	2.0
5.0SMDJ160A	-	-	5PHP	-	1	178.00	197.00	160.0	259.0	19.9	2.0
5.0SMDJ170A	-	-	5PHR	-	1	189.00	209.00	170.0	275.0	18.7	2.0

High-Power Surge TVS (Continued)

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V _{RWM} Max (V)	Surge Waveforms 10/1000 μs I _{pp} max. (A)	Surge Waveforms 10/1000 μs P _{pp} max. (W)	Package	
		Contact (kV)	Air (kV)						
SMAJ5.0A	New	1CH 5.0V Unidirectional 400W SMA TVS	30	30	1	5	43.5	400	DO-214AC
SMAJ6.0A	New	1CH 6.0V Unidirectional 400W SMA TVS	30	30	1	6	38.8	400	DO-214AC
SMAJ6.5A	New	1CH 6.5V Unidirectional 400W SMA TVS	30	30	1	6.5	35.7	400	DO-214AC
SMAJ7.0A	New	1CH 7.0V Unidirectional 400W SMA TVS	30	30	1	7	33.3	400	DO-214AC
SMAJ7.5A	New	1CH 7.5V Unidirectional 400W SMA TVS	30	30	1	7.5	31	400	DO-214AC
SMAJ8.0A	New	1CH 8.0V Unidirectional 400W SMA TVS	30	30	1	8	29.4	400	DO-214AC
SMAJ8.5A	New	1CH 8.5V Unidirectional 400W SMA TVS	30	30	1	8.5	27.8	400	DO-214AC
SMAJ9.0A	New	1CH 9.0V Unidirectional 400W SMA TVS	30	30	1	9	26	400	DO-214AC
SMAJ10A	New	1CH 10V Unidirectional 400W SMA TVS	30	30	1	10	23.5	400	DO-214AC
SMAJ11A	New	1CH 11V Unidirectional 400W SMA TVS	30	30	1	11	22	400	DO-214AC
SMAJ12A	New	1CH 12V Unidirectional 400W SMA TVS	30	30	1	12	20.1	400	DO-214AC
SMAJ13A	New	1CH 13V Unidirectional 400W SMA TVS	30	30	1	13	18.6	400	DO-214AC
SMAJ14A	New	1CH 14V Unidirectional 400W SMA TVS	30	30	1	14	17.2	400	DO-214AC
SMAJ15A	New	1CH 15V Unidirectional 400W SMA TVS	30	30	1	15	16.4	400	DO-214AC
SMAJ16A	New	1CH 16V Unidirectional 400W SMA TVS	30	30	1	16	15.4	400	DO-214AC
SMAJ17A	New	1CH 17V Unidirectional 400W SMA TVS	30	30	1	17	14.5	400	DO-214AC
SMAJ18A	New	1CH 18V Unidirectional 400W SMA TVS	30	30	1	18	13.7	400	DO-214AC
SMAJ20A	New	1CH 20V Unidirectional 400W SMA TVS	30	30	1	20	12.3	400	DO-214AC
SMAJ22A	New	1CH 22V Unidirectional 400W SMA TVS	30	30	1	22	11.3	400	DO-214AC
SMAJ24A	New	1CH 24V Unidirectional 400W SMA TVS	30	30	1	24	10.3	400	DO-214AC
SMAJ26A	New	1CH 26V Unidirectional 400W SMA TVS	30	30	1	26	9.5	400	DO-214AC
SMAJ28A	New	1CH 28V Unidirectional 400W SMA TVS	30	30	1	28	8.8	400	DO-214AC
SMAJ30A	New	1CH 30V Unidirectional 400W SMA TVS	30	30	1	30	8.3	400	DO-214AC
SMAJ33A	New	1CH 33V Unidirectional 400W SMA TVS	30	30	1	33	7.5	400	DO-214AC
SMAJ36A	New	1CH 36V Unidirectional 400W SMA TVS	30	30	1	36	6.9	400	DO-214AC
SMAJ40A	New	1CH 40V Unidirectional 400W SMA TVS	30	30	1	40	6.2	400	DO-214AC
SMAJ43A	New	1CH 43V Unidirectional 400W SMA TVS	30	30	1	43	5.8	400	DO-214AC
SMAJ45A	New	1CH 45V Unidirectional 400W SMA TVS	30	30	1	45	5.5	400	DO-214AC
SMAJ48A	New	1CH 48V Unidirectional 400W SMA TVS	30	30	1	48	5.2	400	DO-214AC
SMAJ51A	New	1CH 51V Unidirectional 400W SMA TVS	30	30	1	51	4.9	400	DO-214AC
SMAJ54A	New	1CH 54V Unidirectional 400W SMA TVS	30	30	1	54	4.6	400	DO-214AC
SMAJ58A	New	1CH 58V Unidirectional 400W SMA TVS	30	30	1	58	4.3	400	DO-214AC
SMAJ60A	New	1CH 60V Unidirectional 400W SMA TVS	30	30	1	60	4.1	400	DO-214AC
SMAJ64A	New	1CH 64V Unidirectional 400W SMA TVS	30	30	1	64	3.9	400	DO-214AC
SMAJ70A	New	1CH 70V Unidirectional 400W SMA TVS	30	30	1	70	3.5	400	DO-214AC

High-Power Surge TVS (Continued)

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V_{RWM} Max (V)	Surge Waveforms 10/1000 μ s Ipp max. (A)		Surge Waveforms 10/1000 μ s Ppp max. (W)		Package
		Contact (kV)	Air (kV)							
SMAJ75A	New	1CH 75V Unidirectional 400W SMA TVS	30	30	1	75	3.3	400	DO-214AC	
SMAJ78A	New	1CH 78V Unidirectional 400W SMA TVS	30	30	1	78	3.2	400	DO-214AC	
SMAJ85A	New	1CH 85V Unidirectional 400W SMA TVS	30	30	1	85	2.9	400	DO-214AC	
SMAJ90A	New	1CH 90V Unidirectional 400W SMA TVS	30	30	1	90	2.7	400	DO-214AC	
SMAJ100A	New	1CH 100V Unidirectional 400W SMA TVS	30	30	1	100	2.5	400	DO-214AC	
SMAJ110A	New	1CH 110V Unidirectional 400W SMA TVS	30	30	1	110	2.3	400	DO-214AC	
SMAJ120A	New	1CH 120V Unidirectional 400W SMA TVS	30	30	1	120	2.1	400	DO-214AC	
SMAJ130A	New	1CH 130V Unidirectional 400W SMA TVS	30	30	1	130	1.9	400	DO-214AC	
SMAJ150A	New	1CH 150V Unidirectional 400W SMA TVS	30	30	1	150	1.6	400	DO-214AC	
SMAJ160A	New	1CH 160V Unidirectional 400W SMA TVS	30	30	1	160	1.5	400	DO-214AC	
SMAJ170A	New	1CH 170V Unidirectional 400W SMA TVS	30	30	1	170	1.5	400	DO-214AC	
SMAJ180A	New	1CH 180V Unidirectional 400W SMA TVS	30	30	1	180	1.4	400	DO-214AC	
SMAJ200A	New	1CH 200V Unidirectional 400W SMA TVS	30	30	1	200	1.2	400	DO-214AC	
SMAJ220A	New	1CH 220V Unidirectional 400W SMA TVS	30	30	1	220	1.1	400	DO-214AC	
SMAJ250A	New	1CH 250V Unidirectional 400W SMA TVS	30	30	1	250	1	400	DO-214AC	
SMAJ300A	New	1CH 300V Unidirectional 400W SMA TVS	30	30	1	300	0.8	400	DO-214AC	
SMAJ350A	New	1CH 350V Unidirectional 400W SMA TVS	30	30	1	350	0.7	400	DO-214AC	
SMAJ400A	New	1CH 400V Unidirectional 400W SMA TVS	30	30	1	400	0.6	400	DO-214AC	
SMAJ4400A	New	1CH 440V Unidirectional 400W SMA TVS	30	30	1	440	0.6	400	DO-214AC	
SMAJ5.0CA	New	1CH 5.0V Bidirectional 400W SMA TVS	30	30	1	5	43.5	400	DO-214AC	
SMAJ6.0CA	New	1CH 6.0V Bidirectional 400W SMA TVS	30	30	1	6	38.8	400	DO-214AC	
SMAJ6.5CA	New	1CH 6.5V Bidirectional 400W SMA TVS	30	30	1	6.5	35.7	400	DO-214AC	
SMAJ7.0CA	New	1CH 7.0V Bidirectional 400W SMA TVS	30	30	1	7	33.3	400	DO-214AC	
SMAJ7.5CA	New	1CH 7.5V Bidirectional 400W SMA TVS	30	30	1	7.5	31	400	DO-214AC	
SMAJ8.0CA	New	1CH 8.0V Bidirectional 400W SMA TVS	30	30	1	8	29.4	400	DO-214AC	
SMAJ8.5CA	New	1CH 8.5V Bidirectional 400W SMA TVS	30	30	1	8.5	27.8	400	DO-214AC	
SMAJ9.0CA	New	1CH 9.0V Bidirectional 400W SMA TVS	30	30	1	9	26	400	DO-214AC	
SMAJ10CA	New	1CH 10V Bidirectional 400W SMA TVS	30	30	1	10	23.5	400	DO-214AC	
SMAJ11CA	New	1CH 11V Bidirectional 400W SMA TVS	30	30	1	11	22	400	DO-214AC	
SMAJ12CA	New	1CH 12V Bidirectional 400W SMA TVS	30	30	1	12	20.1	400	DO-214AC	
SMAJ13CA	New	1CH 13V Bidirectional 400W SMA TVS	30	30	1	13	18.6	400	DO-214AC	
SMAJ14CA	New	1CH 14V Bidirectional 400W SMA TVS	30	30	1	14	17.2	400	DO-214AC	
SMAJ15CA	New	1CH 15V Bidirectional 400W SMA TVS	30	30	1	15	16.4	400	DO-214AC	
SMAJ16CA	New	1CH 16V Bidirectional 400W SMA TVS	30	30	1	16	15.4	400	DO-214AC	
SMAJ17CA	New	1CH 17V Bidirectional 400W SMA TVS	30	30	1	17	14.5	400	DO-214AC	
SMAJ18CA	New	1CH 18V Bidirectional 400W SMA TVS	30	30	1	18	13.7	400	DO-214AC	
SMAJ20CA	New	1CH 20V Bidirectional 400W SMA TVS	30	30	1	20	12.3	400	DO-214AC	
SMAJ22CA	New	1CH 22V Bidirectional 400W SMA TVS	30	30	1	22	11.3	400	DO-214AC	
SMAJ24CA	New	1CH 24V Bidirectional 400W SMA TVS	30	30	1	24	10.3	400	DO-214AC	
SMAJ26CA	New	1CH 26V Bidirectional 400W SMA TVS	30	30	1	26	9.5	400	DO-214AC	
SMAJ28CA	New	1CH 28V Bidirectional 400W SMA TVS	30	30	1	28	8.8	400	DO-214AC	
SMAJ30CA	New	1CH 30V Bidirectional 400W SMA TVS	30	30	1	30	8.3	400	DO-214AC	
SMAJ33CA	New	1CH 33V Bidirectional 400W SMA TVS	30	30	1	33	7.5	400	DO-214AC	
SMAJ36CA	New	1CH 36V Bidirectional 400W SMA TVS	30	30	1	36	6.9	400	DO-214AC	
SMAJ40CA	New	1CH 40V Bidirectional 400W SMA TVS	30	30	1	40	6.2	400	DO-214AC	
SMAJ43CA	New	1CH 43V Bidirectional 400W SMA TVS	30	30	1	43	5.8	400	DO-214AC	
SMAJ45CA	New	1CH 45V Bidirectional 400W SMA TVS	30	30	1	45	5.5	400	DO-214AC	

High-Power Surge TVS (Continued)

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V_{RWM} Max (V)	Surge Waveforms		Package	
		Contact (kV)	Air (kV)			10/1000 μ s Ipp max. (A)	10/1000 μ s Ppp max. (W)		
SMAJ48CA	New	1CH 48V Bidirectional 400W SMA TVS	30	30	1	48	5.2	400	DO-214AC
SMAJ51CA	New	1CH 51V Bidirectional 400W SMA TVS	30	30	1	51	4.9	400	DO-214AC
SMAJ54CA	New	1CH 54V Bidirectional 400W SMA TVS	30	30	1	54	4.6	400	DO-214AC
SMAJ58CA	New	1CH 58V Bidirectional 400W SMA TVS	30	30	1	58	4.3	400	DO-214AC
SMAJ60CA	New	1CH 60V Bidirectional 400W SMA TVS	30	30	1	60	4.1	400	DO-214AC
SMAJ64CA	New	1CH 64V Bidirectional 400W SMA TVS	30	30	1	64	3.9	400	DO-214AC
SMAJ70CA	New	1CH 70V Bidirectional 400W SMA TVS	30	30	1	70	3.5	400	DO-214AC
SMAJ75CA	New	1CH 75V Bidirectional 400W SMA TVS	30	30	1	75	3.3	400	DO-214AC
SMAJ78CA	New	1CH 78V Bidirectional 400W SMA TVS	30	30	1	78	3.2	400	DO-214AC
SMAJ85CA	New	1CH 85V Bidirectional 400W SMA TVS	30	30	1	85	2.9	400	DO-214AC
SMAJ90CA	New	1CH 90V Bidirectional 400W SMA TVS	30	30	1	90	2.7	400	DO-214AC
SMAJ100CA	New	1CH 100V Bidirectional 400W SMA TVS	30	30	1	100	2.5	400	DO-214AC
SMAJ110CA	New	1CH 110V Bidirectional 400W SMA TVS	30	30	1	110	2.3	400	DO-214AC
SMAJ120CA	New	1CH 120V Bidirectional 400W SMA TVS	30	30	1	120	2.1	400	DO-214AC
SMAJ130CA	New	1CH 130V Bidirectional 400W SMA TVS	30	30	1	130	1.9	400	DO-214AC
SMAJ150CA	New	1CH 150V Bidirectional 400W SMA TVS	30	30	1	150	1.6	400	DO-214AC
SMAJ160CA	New	1CH 160V Bidirectional 400W SMA TVS	30	30	1	160	1.5	400	DO-214AC
SMAJ170CA	New	1CH 170V Bidirectional 400W SMA TVS	30	30	1	170	1.5	400	DO-214AC
SMAJ180CA	New	1CH 180V Bidirectional 400W SMA TVS	30	30	1	180	1.4	400	DO-214AC
SMAJ200CA	New	1CH 200V Bidirectional 400W SMA TVS	30	30	1	200	1.2	400	DO-214AC
SMAJ220CA	New	1CH 220V Bidirectional 400W SMA TVS	30	30	1	220	1.1	400	DO-214AC
SMAJ250CA	New	1CH 250V Bidirectional 400W SMA TVS	30	30	1	250	1	400	DO-214AC
SMAJ300CA	New	1CH 300V Bidirectional 400W SMA TVS	30	30	1	300	0.8	400	DO-214AC
SMAJ350CA	New	1CH 350V Bidirectional 400W SMA TVS	30	30	1	350	0.7	400	DO-214AC
SMAJ400CA	New	1CH 400V Bidirectional 400W SMA TVS	30	30	1	400	0.6	400	DO-214AC
SMAJ440CA	New	1CH 440V Bidirectional 400W SMA TVS	30	30	1	440	0.6	400	DO-214AC

AUTOMOTIVE

AOS introduces a portfolio of AEC-Q101 qualified Si and SiC discrete power devices, based on proven high efficiency and

reliable technology for automotive applications.

Automotive Efficiency with AlphaSGT™ MOSFETs

Part Number	Channel	BV _{DSS} (V)	R _{DS(ON)} at 4.5V (mΩ)	R _{DS(ON)} at 10V (mΩ)	Package
AOD464	N	105	–	28	DPAK
AOMU66414	N (Dual)	40	33	15	DFN 8x8

Automotive xEV Safety with AlphaIGBT™

Part Number	Configuration	V _{CE} (max) (V)	I _C (max) (A)		V _{CE(sat)} (typ) (V)	E _(ON) (typ) (mJ)	E _(OFF) (typ) (mJ)	Package
			25°C	100°C				
AOBS30B65LN	IGBT	650	60	30	1.86	0.74	0.33	TO-263

Automotive xEV Performance with αSiC MOSFETs

Part Number	Description	Qualification	V _{DS} Max (V)	R _{DS(ON)} Typ (mΩ)	V _{GS, OP} (V)	ID (A)	Package
AOK033V120X2Q	1200V Silicon Carbide MOSFET	Automotive	1200	33	15	68	TO-247-3L
AOM033V120X2Q	1200V Silicon Carbide MOSFET	Automotive	1200	33	15	68	TO-247-4L
AOM065V120X2Q	1200V Silicon Carbide MOSFET	Automotive	1200	65	15	40	TO-247-4L
AOK150V120X2Q <i>New</i>	1200V Silicon Carbide MOSFET	Automotive	1200	150	15	20	TO-247-3L

SILICON CARBIDE (SiC) MOSFETS & DIODES

Silicon Carbide (SiC) MOSFETs at 650V and 1200V provide the highest level efficiency in medium to high power SMPS. These devices have very low Qrr and exceptionally fast switching speed that perform well in both hard and soft-switching

converters. Target industrial applications include solar inverters, motor drives, charging stations, and telecom/server power supplies. Automotive AEC-Q101 qualified components are ideal for on-board chargers and inverter drives.

αSiC (AlphaSiC) MOSFETS

Part Number	Description	Qualification	V _{DS} Max (V)	R _{DS(ON)} Typ (mΩ)	V _{GS, OP} (V)	ID (A)	Package
AOK033V120X2 <i>New</i>	1200V Silicon Carbide MOSFET	Industrial	1200	33	15	68	TO-247-3L
AOM033V120X2 <i>New</i>	1200V Silicon Carbide MOSFET	Industrial	1200	33	15	68	TO-247-4L
AOK065V120X2	1200V Silicon Carbide MOSFET	Industrial	1200	65	15	40	TO-247-3L
AOM065V120X2 <i>New</i>	1200V Silicon Carbide MOSFET	Industrial	1200	65	15	40	TO-247-4L
AOK150V120X2 <i>New</i>	1200V Silicon Carbide MOSFET	Industrial	1200	150	15	20	TO-247-3L
AOK065V65X2	650V Silicon Carbide MOSFET	Industrial	650	65	15	33	TO-247-3L

αSiC (AlphaSiC) Diodes

Part Number	Description	Qualification	Configuration	V _{DC} (V)	I _F (A)	V _F (V)	Q _C (nC)	Package
AOK20120XSD <i>New</i>	1200V Silicon Carbide Schottky Diode	Industrial	Dual	1200	20	1.45	136	TO-247-3L
AOK40120XSD <i>New</i>	1200V Silicon Carbide Schottky Diode	Industrial	Dual	1200	40	1.45	244	TO-247-3L

MOSFETs, IGBTs, IPMs AND HVICs

AOS pioneered the fab-lite model in the Trench Power MOSFET field, developing leading-edge products that are exclusively manufactured in state-of-the-art 12-inch and 8-inch fabs. Advanced proprietary silicon and packaging are

designed in AOS's US headquarters and are then produced with its very efficient manufacturing model. Our product portfolio covers 6V to 1000V MOSFETs; 600V, 650V, 700V, 1200V, and 1350V IGBTs; 600V 3-phase motor drives IPMs, and HVICs.

Low Voltage MOSFETs

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	I _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				V _{GS(th)} (max V)	C _{iss} (pF)	C _{oss} (pF)	Cr _{ss} (pF)	Q _g (nC)	Q _{gd} (nC)	T _{rr} (ns)	Q _{rr} (nC)
								25°C	25°C	10V	4.5V	2.5V	1.8V								
AlphaDFN™ 0.97x0.97																					
AOC2421	MCSP 0.97x0.97A	Single	P	Yes	No	-8	5	-2.5	0.6			60	72	-0.7	752	178	104	7.5	1	12	4
AOC2874	MCSP 0.97x0.97B	Common Drain	N	Yes	No	20	12	4.5	1.1		48	72	1.3					11.5			
AlphaDFN™ 1.2x1.2																					
AOCA32116E	MCSP 1.2x1.2	Common Drain	N	Yes	No	20	12	6	1.7		36 ⁽²⁾	55 ⁽²⁾	1.3					5.5			
AlphaDFN™ 1.5x1.5/1.57x1.57																					
AOC2804B	MCSP 1.5x1.5	Common Drain	N	Yes	No	20	12	6	1.3		34 ⁽²⁾	56 ⁽²⁾	1.3					9.5			
AlphaDFN™ 1.7x1.7																					
AOC2870	MCSP 1.7x1.17	Common Drain	N	Yes	No	20	12	10	1.4		11.9	20	1.3					11.5			
AlphaDFN™ 1.79x1.18																					
AOCA24108E	MCSP 1.79x1.18	Common Drain	N	Yes	No	12	8	14	2.2		7.5	11	1.1					15			
AlphaDFN™ 1.84x1.96																					
AOCA32106E	MCSP 1.84x1.96	Common Drain	N	Yes	No	12	8	25	2.8		3.4	5.3	1.1					23			
AlphaDFN™ 1.90x1.30A																					
AOCA32301	MCSP 1.90x1.30A	Common Drain	N	Yes	No	30	16	9	1.9	18	24		1.9					24.5			
AlphaDFN™ 1.90x1.6																					
AOCA24106C	MCSP 1.90x1.6	Common Drain	N	Yes	No	12	8	20	2.7		5.6	8.5	1.1					16			
AOCA24106E	MCSP 1.90x1.6	Common Drain	N	Yes	No	12	8	20	2.7		5.6	8.5	1.1					18			
AlphaDFN™ 2.52x2.52																					
AOCA33103E	New	MCSP 2.52x2.52	Common Drain	N	Yes	No	12	8	40	3.1	1.8	2.8	1.3					45			
AlphaDFN™ 2.98x1.49																					
AOCA33104A	New	MCSP 2.98x1.49	Common Drain	N	Yes	No	12	8	30	3.1	2.8	4.2	1.3					32			
AOCA33104E		MCSP 2.98x1.49	Common Drain	N	Yes	No	12	8	30	3.1	2.8	4.2	1.2					36			
AlphaDFN™ 3.01x1.52																					
AOC3870A	MCSP 3.01x1.52A	Common Drain	N	Yes	No	12	8	22	2.3		3.7	5.6	1.1					32			
AOC3870C	MCSP 3.01x1.52B	Common Drain	N	Yes	No	12	8	25	3.1		3.8	5.6	1.1					32			
AlphaDFN™ 3.05x1.77																					
AOC3860A	MCSP 3.05x1.77A	Common Drain	N	Yes	No	12	8	25	2.5		3.5	5	1.0					44			
AOC3860C	MCSP 3.05x1.77B	Common Drain	N	Yes	No	12	8	25	3.1		3.5	5	1.1					36			
AlphaDFN™ 3.2x2.1																					
AOCA36116C	MCSP 3.2x2.1	Common Drain	N	Yes	No	24	12	30	3.1		3.1	5	1.2					35			
AlphaDFN™ 3.37x1.47																					
AOCA32317	MCSP 3.37x1.47	Common Drain	N	Yes	No	30	20	17	3.1	7.3	10.2		2					50			
AlphaDFN™ 3.4x1.96																					
AOCA36102E	MCSP 3.4x1.96	Common Drain	N	Yes	No	12	8	20	2.5		5	7	1.1					35			
AlphaDFN™ 3.55x1.77																					
AOC3862	MCSP 3.55x1.77	Common Drain	N	Yes	No	12	8	27	2.5		3.0	4.4	1.2					46			
AOC3878	MCSP 3.55x1.77	Common Drain	N	Yes	No	12	8	35	3.1		2	3.3	1.1					60			

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* R_{DS(ON)} measured at V_{GS} other than 10V, 4.5V or 1.8V.
† Q_g measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	I _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				V _{GS(th)} (max V)	C _{iss} (pF)	C _{oss} (pF)	C _{rss} (pF)	Q _g (nC)	Q _{gd} (nC)	T _{rr} (ns)	Q _{rr} (nC)
								25°C	25°C	10V	4.5V	2.5V	1.8V								
AOSD32334C	SO-8	Dual	N	Yes	No	30	20	7	1.7	20	26			2.3	600	70	60	6	2.5	5	6
AOSP32314	SO-8	Single	N	No	No	30	20	14.5	3.1	9	12.6			2.25	1420	150	95	10	4	7.5	9
AOSP32368	SO-8	Single	N	Yes	No	30	20	16	3.1	5.5	7.5			2.4	2270	245	200	18	10	10.5	16
AOSP32320C	SO-8	Single	N	No	No	30	20	8.5	2.5	22	30			2.3	650	70	50	7	2.5	5	5
AOSP36326C	SO-8	Single	N	No	No	30	20	12	2.5	11	17			2.3	542	233	31	4.3	1.7	9.7	11.5
AO4402G	SO-8	Single	N	No	No	20	12	20	3.1		5.9	7.3		1.25	3300	485	370	31	8	17	30
AO4806	SO-8	Dual	N	Yes	No	20	12	9.4	2	14	16	22	30	1	1810	232	200	17.9	4.7	22	8.6
AO9926B	SO-8	Dual	N	No	No	20	12	7.6	2	23	26	34	52	1.1	525	95	75	6	2	14	6
AO9926C	SO-8	Dual	N	No	No	20	12	7.6	2	23	26	34	52	1.1	525	95	75	6	2	14	6
AO4453	SO-8	Single	P	No	No	-12	8	-9	2.5		19	26	36	-0.9	1370	350	258	12.7	3.4	20.7	5.2
AO4403	SO-8	Single	P	No	No	-30	12	-6	3.1	48	57	80		-1.3	645	80	55	7	2.5	11	3.5
AO4405	SO-8	Single	P	No	No	-30	20	-6	3.1	50	85			-2.4	520	100	65	4.6	2.2	11	5.3
AO4405E	SO-8	Single	P	Yes	No	-30	20	-6	2.5	45	80			-1.5	495	100	56	4.2	2	9	13.5
AO4419	SO-8	Single	P	No	No	-30	20	-9.7	3.1	20	35			-2.5	1040	180	125	9.6	4.6	11.5	25
AO4449	SO-8	Single	P	No	No	-30	20	-7	3.1	34	54			-2.4	760	140	95	6.7	3.2	15	9.7
AO4803	SO-8	Dual	P	No	No	-30	20	-5	2	46	74			-2.5	520	100	65	4.6	2.2	11	5.3
AO4803A	SO-8	Dual	P	No	No	-30	20	-5	2	46	74			-2.5	520	100	65	4.6	2.2	11	5.3
AO4805	SO-8	Dual	P	No	No	-30	25	-9	2	18				-2.8	2060	370	295	30 [†]	10	30	22
AO4807	SO-8	Dual	P	No	No	-30	20	-6	2	35	58			-2.4	760	140	95	6.7	3.2	15	9.7
AO4813	SO-8	Dual	P	No	No	-30	20	-7.1	2	25	40			-2.5	1040	180	125	9.3	4.6	11.5	25
AO4606	SO-8	Complementary	P	No	No	-30	20	-6.5	2	28	44			-2.4	760	140	95	6.7	3.2	15	9.7
AO4616	SO-8	Complementary	P	No	No	-30	20	-7	2	22	40			-2.5	1040	180	125	9.6	4.6	11.5	25
AO4620	SO-8	Complementary	P	No	No	-30	20	-5.3	2	32	55			-2.4	760	140	95	6.7	3.2	15	9.7
AO4627	SO-8	Complementary	P	No	No	-30	20	-3.5	2	100	165			-2.4	197	42	26	2.2	1.1	11.3	4.4
AO4629	SO-8	Complementary	P	No	No	-30	20	-5.5	2	41	74			-2.5	520	100	65	4.6	2.2	11	5.3
AO4630	SO-8	Complementary	P	No	No	-30	12	-5	2	48	57	78		-1.3	700	80	60	7		15	40
AONS21321	SO-8	Single	P	No	No	-30	25	-24	24.5	16.5	29.5			-2.3	1180	185	155	11	3	13	23
AOSD21311C	SO-8	Dual	P	No	No	-30	20	-5	1.7	42	64			-2.2	720	80	70	12.5	3	10	13
AOSD21313C	SO-8	Dual	P	No	No	-30	20	-5.7	1.7	32	55			-2.2	1100	120	105	22	6.5	12	17
AOSP21307	SO-8	Single	P	No	No	-30	25	-14	3.1	11.5	18.5			-2.3	1995	300	260	17	8.8	13.3	20
AOSP21311C	SO-8	Single	P	No	No	-30	20	-6	2.5	42	64			-2.2	720	80	70	12.5	3	10	13
AOSP21313C	SO-8	Single	P	No	No	-30	20	-7	2.5	32	55			-2.2	1100	120	105	22	6.5	12	17
AOSP21321	SO-8	Single	P	No	No	-30	25	-11	3.1	17	30			-2.3	1180	185	155	11	3	10	15
AOSP21357	SO-8	Single	N	Yes	No	-30	25	-16	3.1	8.5	13			-2.3	2830	430	365	25	12	62	32
AO4425	SO-8	Single	P	Yes	No	-38	25	-14	3.1	11				-3.5	3800	560	350	63 [†]	16.1	35	33
Ultra SO-8																					
AOUS66923	Ultra SO-8	Single	N	No	No	100	20	58	73	11	15			2.6	1725	360	7.5	12.5	3.5	41	156
AOUS66620	Ultra SO-8	Single	N	No	No	60	20	46	52	9				3.6	1070	310	12	16 [†]	3.6	18	58
AOL1404G	Ultra SO-8	Single	N	No	No	20	12	46	50		4.6	6		1.25	3300	485	370	31	8	17	30
SOT-23																					
AOSS32334C	SOT23-3	Single	N	Yes	No	30	20	6.2	1.3	20	26			2.3	600	70	60	6	2.5	5	6
AOSS32338C	SOT23-3	Single	N	Yes	No	30	12	4	1.3	50	57	72		1.5	340	30	25	4	1.2	5.5	4
AOSS32136C	SOT23-3	Single	N	Yes	No	20	12	6.5	1.3	20	26			1.25	660	100	80	7	2	8	6
AO3413	SOT-23-3	Single	P	No	No	-20	8	-3	1.4		80	100	130	-1	560	80	70	8.5	2.1	37	27
AO3419	SOT-23-3	Single	P	Yes	No	-20	12	-3.5	1.4	85	102	140		-1.2	325	63	37	3.1	1.1	11	4.3

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Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	I _D (A)				P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
								25°C	25°C	10V	4.5V		2.5V	1.8V	10V	4.5V								
AO4485	SO-8	Single	P	No	No	40	20	10	1.7	15	20	-2.5	2500	260	180	18.6	8.6	38	47					
AO4884	SO-8	Dual	N	No	No	40	20	10	2	13	16	2.7	1500	215	135	13.6	6.4	13	35					
AO4614B	SO-8	Complementary	N	No	No	40	20	6	2	30	38	3	516	82	43	4.3	1.4	18	10					
AOSP66406	SO-8	Single	N	No	No	40	20	17	3.1	6.6	10	2.5	1480	245	13	8.5	3	11	21					
AO4443	SO-8	Single	P	No	No	10	20	-6	3.1	42	63	-2.6	940	97	72	8.4	4.3	17	11.5					
AO4840E	SO-8	Dual	N	Yes	No	10	20	6	2	28	35	2.6	520	65	32	4.5	1.5	13						
AO4614B	SO-8	Complementary	P	No	No	-40	20	-5	2	45	63	-3	940	97	72	7.9	3.2	21	14					
AO4421	SO-8	Single	P	No	No	-60	20	-6.2	3.1	40	50	-3	2417	179	120	22.7	9.2	34	47					
AO4612	SO-8	Complementary	P	No	No	-60	20	-3.2	2	105	135	-3	930	85	35	8	3.2	27	32					
Ultra SO-8																								
AOL1482	Ultra SO-8	Single	N	Yes	No	100	20	28	75	37	42	2.7	1630	100	50	18	9	32	200					
AOUS66920	Ultra SO-8	Single	N	No	No	100	20	69	86	8.2	10.7	2.5	2500	485	13	16.7	5	34	170					
AOUS66923	Ultra SO-8	Single	N	Yes	No	100	20	58	73	11	15	2.6	1725	360	7.5	12.5	3.5	41	156					
AOL1454G	Ultra SO-8	Single	N	Yes	No	40	20	50	60	9	13	3	1600	320	100	10.5	4.8	31	33					
AOUS66414	Ultra SO-8	Single	N	No	No	40	20	92	92	2.2	3.2	2.3	4350	730	40	24	3.6	18	45					
AOUS66416	Ultra SO-8	Single	N	No	No	40	20	69	73.5	3.3	5.0	2.5	2575	440	25	13.5	2	14	30					
SOT-223																								
AOH3254	SOT-223	Single	N	No	No	150	20	5	4.1	63	77	2.7	675	78	4	5.5	2.5	37	210					
SOT-23-3																								
AOSS62934	SOT-23-3	Single	N	No	No	100	20	2.0	1.4	140	180	2.7	250	19	2.5	1.8	0.8	12	27					
AOSS21319C	SOT-23-3	Single	P	Yes	No	-30	20	-2.8	1.3	100	150	-2.2	320	40	35	3	1.6	9	13					
TO-220																								
AOT9N40	TO-220	Single	N	No	No	400	30	8	132	800		4.5	630	73	5.7	13.1 [†]	4.8	195	1900					
AOT12N40	TO-220	Single	N	No	No	400	30	11	184	590		4.5	925	100	6.4	17 [†]	5.7	235	2400					
AOT12N30	TO-220	Single	N	No	No	300	30	11.5	132	420		4.5	632	90	7	12.8 [†]	4.3	170	1300					
AOT20N25	TO-220	Single	N	No	No	250	30	20	208	170		4.5	1028	167	11	20 [†]	8	179	1600					
AOT2500L	TO-220	Single	N	No	No	150	20	152	375	6.5	7.6*	3.5	6460	586	22	97 [†]	17	90	1090					
AOT2502L	TO-220	Single	N	No	No	150	20	106	277	11		5.1	3010	345	14	43 [†]	10	75	880					
AOT292L	TO-220	Single	N	No	No	100	20	105	300	4.5	5.3*	3.4	6775	557	32	90 [†]	13.5	50	380					
AOT296L	TO-220	Single	N	No	No	100	20	70	107	10	12.5*	3.4	2785	238	12	16.5	5	35	210					
AOT2904	TO-220	Single	N	No	No	100	20	120	326	4.4		3.3	7085	605	32	93	16	49	460					
AOT2910L	TO-220	Single	N	No	No	100	20	30	50	24	33	2.7	1190	95	7	7	2.5	30	145					
AOT2916L	TO-220	Single	N	No	No	100	20	23	41.5	34	43.5	2.7	870	68	3.5	5.5	2	20	88					
AOT280L	TO-220	Single	N	No	No	80	20	140	333	2.7	3.5*	3.4	11135	1315	80	160 [†]	28	44	348					
AOT282L	TO-220	Single	N	No	No	80	20	105	272.5	3.5	5.2*	3.5	7765	960	66	58	21	40	320					
AOT284L	TO-220	Single	N	No	No	80	20	105	250	4.5	5.7*	3.3	5154	673	48	33.5	11.5	38	230					
AOT286L	TO-220	Single	N	No	No	80	20	70	167	6	7.9*	3.3	3142	435	43	44.5 [†]	8	29	161					
AOT288L	TO-220	Single	N	No	No	80	20	46	93.5	9.2	12.5*	3.4	1871	265	14	26.5	4	32	162					
AOT66518L	TO-220	Single	N	No	No	150	20	120	375	5		3.7	6460	820	5	80	15	86	920					
AOT66914L	TO-220	Single	N	No	No	100	20	120	375	2.7		3.5	12500	3190	55	155 [†]	31	55	335					
AOT66918L	TO-220	Single	N	No	No	100	20	120	375	5		3.7	6500	3200	30	75	15	80	790					
AOT66919L	New	TO-220	Single	N	No	100	20	105	187	6.8	8.8	2.6	3420	790	14	22	5	36	214					
AOT66811L	New	TO-220	Single	N	No	80	20	120	310	3.0		3.8	5750	1580	30	110	15	35	175					
AOT270AL	TO-220	Single	N	No	No	75	20	140	500	2.6	3.2*	3.3	10830	1520	97	147 [†]	30	53	438					
AOT430	TO-220	Single	N	No	No	75	25	80	268	11.5		4	4700	400	180	114 [†]	18	53	143					

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† Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	I _D (A) 25°C	P _D (W) 25°C	R _{DS(ON)} (mΩ max) at V _{GS} =				VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
										10V	4.5V	2.5V	1.8V								
AOT470	TO-220	Single	N	No	No	75	25	100	268	10.5			4	4700	400	180	114†	18	53	143	
AOT66616L	TO-220	Single	N	No	No	60	20	140	125	3.2			3.4	2870	940	38	42.5	10	26	87	
AOT66620L	TO-220	Single	N	No	No	60	20	57	50	8.5			3.6	1070	310	12	16†	3.6	18	58	
AOT2140L	TO-220	Single	N	No	No	40	20	195	272	1.5	2		2.3	9985	1635	95	54	11	29	107	
AOT2142L	TO-220	Single	N	No	No	40	20	120	312	1.9	2.5		2.3	8320	1438	85	45	7	26	83	
AOT2144L	TO-220	Single	N	No	No	40	20	120	187	2.3	4		2.4	5225	895	55	28	4.5	20	60	
AOT2146L	TO-220	Single	N	No	No	40	20	105	119	2.8	3.9		2.5	3830	630	45	20	3	18.5	50	
TO-220F																					
AOTF20N40	TO-220F	Single	N	No	No	400	30	20	50	250			4.3	1898	212	15	37†	12	285	3900	
AOTF12N30	TO-220F	Single	N	No	No	300	30	11.5	36	420			4.5	632	90	7	12.8†	4.3	170	1300	
AOTF454L	TO-220F	Single	N	No	No	150	20	13	41	94	100*		4.6	820	70	22	15	4.4	32.5	230	
AOTF292L	TO-220F	Single	N	No	No	100	20	70	47	4.5			3.4	6775	557	32	90	13.5	50	380	
AOTF296L	TO-220F	Single	N	No	No	100	20	41	36.5	10	12.5*		3.4	2785	238	12	37†	5	35	210	
AOTF2910L	TO-220F	Single	N	No	No	100	20	22	27	24	33		2.7	1190	95	7	7	2.5	30	145	
AOTF2916L	TO-220F	Single	N	No	No	100	20	17	23.5	34	43		2.7	870	68	3.5	5.5	2	20	88	
AOTF4126	TO-220F	Single	N	No	No	100	25	27	42	24	30*		4	1770	165	55	28†	10	20	82	
AOTF66919L <i>New</i>	TO-220F	Single	N	No	No	100	20	50	32	6.5	8.5		2.6	3420	790	14	22	5	36	214	
AOTF286L	TO-220F	Single	N	No	No	80	20	56	37.5	6	8*		3.3	3142	435	43	44.5†	8	29	161	
AOTF288L	TO-220F	Single	N	No	No	80	20	43	35.5	9.2	12.5*		3.4	1871	265	14	26.5	4	32	162	
AOTF66811L <i>New</i>	TO-220F	Single	N	No	No	80	20	80	34	3.0			3.8	5750	1580	30	77	15	35	175	
AOTF66613L	TO-220F	Single	N	No	No	60	20	90	34.5	2.5			3.5	5300	1500	50	78†	20	30	135	
AOTF66616L	TO-220F	Single	N	No	No	60	20	72.5	30	3.3			3.4	2870	940	38	42.5	10	26	87	
AOTF2142L	TO-220F	Single	N	No	No	40	20	112	41	1.9	2.5		2.3	8320	1438	85	45	7	26	83	
AOTF2144L	TO-220F	Single	N	No	No	40	20	90	32	2.3	4		2.4	5225	895	55	28	4.5	20	60	
AOTF2146L	TO-220F	Single	N	No	No	40	20	80	29.5	2.8	3.9		2.5	3830	630	45	20	3	18.5	50	
AOTF4185	TO-220F	Single	P	No	No	-40	20	-34	33	16	20		-2.5	2550	280	190	18.6	8.6	25	75	
AOTF409	TO-220F	Single	P	No	No	-60	20	-24	43	40	54		-2.4	2461	178	120	19.7	8.9	26.68	167.12	
TO-247																					
AOK40N30	TO-247	Single	N	No	No	300	30	40	357	85			4.1	2718	405	31	60†	21	275	8200	
AOK60N30L	TO-247	Single	N	No	No	300	30	60	658	56			4.1	4438	593	38	88	28	320	14.5	
AOK66518	TO-247	Single	N	No	No	150	20	120	500	5.4			3.7	6460	820	5	80	15	86	920	
AOK66914	TO-247	Single	N	No	No	100	20	120	500	2.8											
AOK66613	TO-247	Single	N	No	No	60	20	120	312	2.5			3.5	5300	1500	50	78†	20	30	135	
TO-251A																					
AOI5N40	TO-251A	Single	N	No	No	400	30	4.2	78	1600			4.5	331	42	3	6.9†	2.3*	160	930	
AOI468	TO-251A	Single	N	No	No	300	30	11.5	150	420			4.5	632	90	7	12.8†	4.3*	170	1300	
AOI8N25	TO-251A	Single	N	No	No	250	30	8	78	560			4.3	306	51	3.2	6†	1.5*	77	290	
AOI478	TO-251A	Single	N	No	No	100	20	11	45	140	152		2.8	445	29	16	5.1	2.4	21	97	
AOI4126	TO-251A	Single	N	No	No	100	25	43	100	24	30*		4	1770	165	55	28†	10	20	82	
AOI4286	TO-251A	Single	N	No	No	100	20	14	30	68	92		2.9	390	30	3	2.8	1.2	15	53	
AOI444	TO-251A	Single	N	No	No	60	20	12	20	60	85		3	450	61	27	3.8	1.9	27	30	
AOI2610E	TO-251A	Single	N	No	No	60	20	46	59.5	9.5			2.4	1100	300	28	7	3.5	19	65	
AOI4184	TO-251A	Single	N	No	No	40	20	50	50	8	11		3	1500	215	135	27.2	6.4	29	26	
AOI66406	TO-251A	Single	N	No	No	40	20	60	52	6.1	9.4		2.5	1480	245	13	8.5	3	11	21	
AOI538	TO-251A	Single	N	No	No	30	20	70	93	3.1	4.8		3.1	2610	915	115	14	6.3	16.5	34.2	

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

* R_{DS(ON)} measured at V_{GS} other than 10V, 4.5V or 1.8V.
† Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	I _D (A)				P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
								25°C	25°C	10V	4.5V		2.5V	1.8V	10V	4.5V								
AOB66811L	New	TO-263	Single	N	No	No	80	20	140	310	2.7				3.8	5750	1580	30	77	15	35	175		
AOB470L		TO-263	Single	N	No	No	75	25	100	268	10.2				4	4700	400	180	114 [†]	18	53	143		
AOB66613L		TO-263	Single	N	No	No	60	20	120	260	2.5				3.5	5300	1500	50	78 [†]	20	30	135		
AOB66616L		TO-263	Single	N	No	No	60	20	140	125	3.2				3.4	2870	940	38	42.5	10	26	87		
AOB2140L		TO-263	Single	N	No	No	40	20	195	272	1.5	2			2.3	9985	1635	95	54	11	29	107		
AOB2144L		TO-263	Single	N	No	No	40	20	120	187	2.3	4			2.4	5225	895	55	28	4.5	20	60		
AOB2146L		TO-263	Single	N	No	No	40	20	105	119	2.8	3.9			2.5	3830	630	45	20	3	18.5	50		
AOB4184		TO-263	Single	N	No	No	40	20	50	50	10	13			3	1500	215	135	13.6	6.4	19	59		
AOB409L		TO-263	Single	P	No	No	-60	20	-31.5	83.3	38	50			-2.4	2461	178	120	19.7	8.9	25.7	167		
AOB411L		TO-263	Single	P	No	No	-60	20	-78	187	16.5	22			-2.5	5330	483	234	40	18	27	165		
TOLLA																								
AOTL66518		TOLLA	Single	N	No	No	150	20	214	500	4.3				3.7	6460	820	5	80 [†]	15	86	920		
AOTL66912		TOLLA	Single	N	No	No	100	20	380	500	1.7				3.5	12500	3190	55	155 [†]	31	55	335		
AOTL66810	New	TOLLA	Single	N	No	No	80	20	420	425	1.25				3.6	13000	3300	95	175	35	52	340		
AOTL66608		TOLLA	Single	N	No	No	60	20	400	500	0.85				3.3	14200	4300	155	205 [†]	50	50	265		
AOTL66610		TOLLA	Single	N	No	No	60	20	350	272	1.2				3.6	7625	2145	68	103 [†]	23	37	172		
AOTL66401		TOLLA	Single	N	No	No	40	20	400	300	0.7	0.95			2.3	19180	3110	180	100	22	35	160		
TSOP-6																								
AO6420		TSOP-6	Single	N	No	No	60	20	4.2	2	60	75			3	450	60	25	4.3	2.2	25.1	28.7		
AOTS21311C		TSOP-6	Single	P	Yes		-30	20	-5.9	2.5	45	65			-2.2	720	80	70	6.5	2.5	10	13		

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
 2. On-resistance Static Source-Source, otherwise Static Drain-Source.

* R_{DS(ON)} measured at V_{GS} other than 10V, 4.5V or 1.8V.
 † Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

αMOS5™ High Voltage Super Junction MOSFETs

Part Number	V _{DS} (V)	R _{DS(ON)} (mΩ max) at V _{GS} = 10V	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{GS} (±V)	I _D (A) 25°C	P _D (W) 25°C	V _{GS(th)} (max V)	C _{iss} (pF)	C _{oss} (pF)	Cr _{ss} (pF)	Q _g (nC)	Q _{gd} (nC)	T _{rr} (ns)	Q _{rr} (nC)
V_{DS} = 700V																		
AOB360A70L	700	360	TO-263	Single	N	No	No	20	12	156	—	1360	34	1.7	22.5	6.3	310	4800
AOD360A70	700	360	TO-252	Single	N	No	No	20	12	138	—	1360	34	1.7	22.5	6.3	310	4800
AOI360A70	700	360	TO-251A	Single	N	No	No	20	12	138	—	1360	34	1.7	22.5	6.3	310	4800
AOT360A70L	700	360	TO-220	Single	N	No	No	20	12	156	—	1360	34	1.7	22.5	6.3	310	4800
AOTF360A70L	700	360	TO-220F	Single	N	No	No	20	12	29.5	—	1360	34	1.7	22.5	6.3	310	4800
AOWF360A70	700	360	TO-262F	Single	N	No	No	20	12	29.5	—	1360	34	1.7	22.5	6.3	310	4800
AONV420A70	700	420	DFN8x8	Single	N	No	No	20	12	156	4.6	1360	34	1.7	21.5	6.0	310	4800
AOB450A70L	700	450	TO-263	Single	N	No	No	20	11	138	3.6	1115	30	2.0	20	5.2	275	3500
AOD450A70	700	450	TO-252	Single	N	No	No	20	11	125	3.6	1115	30	2.0	20	5.2	275	3500
AOI450A70	700	450	TO-251A	Single	N	No	No	20	11	125	3.6	1115	30	2.0	20	5.2	275	3500
AOT450A70L	700	450	TO-220	Single	N	No	No	20	11	138	3.6	1115	30	2.0	20	5.2	275	3500
AOTF450A70L	700	450	TO-220F	Single	N	No	No	20	11	27	3.6	1115	30	2.0	20	5.2	275	3500
AOWF450A70	700	450	TO-262F	Single	N	No	No	20	11	26	3.6	1115	30	2.0	20	5.2	275	3500
AOB600A70L	700	600	TO-263	Single	N	No	No	20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
AOB600A70FL	700	600	TO-263	Single	N	No	No	20	8.5	104	—	900	23	1.4	14.5	2.6	260	3500
AOD600A70	700	600	TO-252	Single	N	No	No	20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
AOD600A70R	700	600	TO-252	Single	N	No	No	20	8.5	104	—	950	25	1.5	15.5	2.7	250	3500
AOI600A70	700	600	TO-251A	Single	N	No	No	20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
AOI600A70R	700	600	TO-252	Single	N	No	No	20	8.5	104	—	950	25	1.5	15.5	2.7	250	3500
AOT600A70L	700	600	TO-220	Single	N	No	No	20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
AOT600A70FL	700	600	TO-220	Single	N	No	No	20	8.5	104	—	900	23	1.4	14.5	2.6	260	3500
AOTF600A70FL	700	600	TO-220F	Single	N	No	No	20	8.5	26	—	900	23	1.4	14.5	2.6	260	3500
AOWF600A70	700	600	TO-220F	Single	N	No	No	20	8.5	25	—	870	23	1.3	15.5	4.3	245	3000
AOWF600A70F	700	600	TO-220F	Single	N	No	No	20	8.5	25	—	900	23	1.4	14.5	2.6	260	3500
AOB780A70L	700	780	TO-263	Single	N	No	No	20	7	89	4.1	675	18	1.8	11.5	2.8	230	2500
AOD780A70	700	780	TO-252	Single	N	No	No	20	7	83	4.1	675	18	1.8	11.5	2.8	230	2500
AOT780A70L	700	780	TO-220	Single	N	No	No	20	7	89	4.1	675	18	1.8	11.5	2.8	230	2500
AOTF780A70L	700	780	TO-220F	Single	N	No	No	20	7	25	4.1	675	18	1.8	11.5	2.8	230	2500
AOWF780A70	700	780	TO-262F	Single	N	No	No	20	7	23	4.1	675	18	1.8	11.5	2.8	230	2500
AONS850A70	700	850	DFN5X6	Single	N	No	No	20	7.6	113	4.1	675	18	1.8	11.5	2.8	230	2500
AOD950A70	700	950	TO-252	Single	N	No	No	20	5	56.5	4.1	461	15	1.4	10	2.8	200	2000
AOI950A70	700	950	TO-251A	Single	N	No	No	20	5	56.5	4.1	461	15	1.4	10	2.8	200	2000
AOD1R4A70	700	1400	TO-252	Single	N	No	No	20	3.8	32	4.1	354	12	1.3	8	2	176	1400
AOI1R4A70	700	1400	TO-251A	Single	N	No	No	20	3.8	48	4.1	354	12	1.3	8	2	176	1400

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

* R_{DS(ON)} measured at V_{GS} other than 10V, 4.5V or 1.8V.
† Q_g measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Intelligent Power Modules (IPMs)

Part Number		Package	Description	Input Logic	Rated Voltage (V)	$R_{DS(ON)}$ (Ω)	Related Current (A)	Emitter Configuration	Pin Length
IPM-3									
AIP3D05A060Q4		IPM-3	3-Phase ESD IGBT IPM	Active High	600	—	5	Separated	Long
AIP3D05A060Q4N		IPM-3	3-Phase ESD IGBT IPM	Active High	600	—	5	Separated	Normal
AIP3D10A060Q4		IPM-3	3-Phase ESD IGBT IPM	Active High	600	—	10	Separated	Long
AIP3D10A060Q4N		IPM-3	3-Phase ESD IGBT IPM	Active High	600	—	10	Separated	Normal
AIP3D15A060Q4		IPM-3	3-Phase ESD IGBT IPM	Active High	600	—	15	Separated	Long
AIP3D15A060Q4N		IPM-3A	3-Phase ESD IGBT IPM	Active High	600	—	15	Separated	Normal
AIP3D15A060Q4T		IPM-3E	3-Phase ESD IGBT IPM	Active High	600	—	15	Separated	Long with Stopper
AIP3D15A060Q6	New	IPM-3	3-Phase ESD IGBT IPM	Active High	600	—	15	Separated	Long
AIP3D15A060Q6N	New	IPM-3A	3-Phase ESD IGBT IPM	Active High	600	—	15	Separated	Normal
AIP3D10A060Q6	New	IPM-3	3-Phase ESD IGBT IPM	Active High	600	—	10	Separated	Long
AIP3D10A060Q6N	New	IPM-3A	3-Phase ESD IGBT IPM	Active High	600	—	10	Separated	Normal
IPM-5									
AIM5C05B060N1		IPM-5	3-Phase IGBT IPM	Active High	600	—	5	Common	Normal
AIM5D05B060N1		IPM-5	3-Phase IGBT IPM	Active High	600	—	5	Separated	Normal
AIM5D05K060M2		IPM-5	3-Phase ESD IGBT IPM	Active High	600	—	5	Separated	Normal
AIM5D05K060M2S		IPM-5A	3-Phase ESD IGBT IPM	Active High	600	—	5	Separated	Short
AIM5D05L060Q4		IPM-5	3-Phase ESD IGBT IPM, Low EMI	Active High	600	—	5	Separated	Normal
AIM5D05L060Q4S		IPM-5A	3-Phase ESD IGBT IPM, Low EMI	Active High	600	—	5	Separated	Short
AIM5D10L060Q4		IPM-5	3-Phase ESD IGBT IPM, Low EMI	Active High	600	—	10	Separated	Normal
AIM5D10L060Q4S		IPM-5A	3-Phase ESD IGBT IPM, Low EMI	Active High	600	—	10	Separated	Short
AIM5D10B060M1		IPM-5	3-Phase IGBT IPM	Active High	600	—	10	Separated	Normal
AIP5D10K060Q1		IPM-5	3-Phase IGBT IPM	Active High	600	—	10	Separated	Normal
AIP5D10K060Q1S		IPM-5A	3-Phase IGBT IPM	Active High	600	—	10	Separated	Short
AIP5D05K060Q4		IPM-5	3-Phase ESD IGBT IPM	Active High	600	—	5	Separated	Normal
AIP5D05K060Q4S		IPM-5A	3-Phase ESD IGBT IPM	Active High	600	—	5	Separated	Short
AIP5D10K060Q4		IPM-5	3-Phase ESD IGBT IPM	Active High	600	—	10	Separated	Normal
AIP5D10K060Q4S		IPM-5A	3-Phase ESD IGBT IPM	Active High	600	—	10	Separated	Short
AIP5D10K060Q4U		IPM-5C	3-Phase ESD IGBT IPM	Active High	600	—	10	Separated	Ultra Short
AIP5D15K060Q4		IPM-5	3-Phase ESD IGBT IPM	Active High	600	—	15	Separated	Normal
AIP5D15K060Q4S		IPM-5A	3-Phase ESD IGBT IPM	Active High	600	—	15	Separated	Short
IPM-7									
AIM702H50B		IPM-7	3-Phase MOSFET IPM	Active High	500	4.0	—	Common	Normal
AIM702S60C1	New	IPM-7	3-Phase MOSFET IPM	Active High	600	4.2	—	Common	Normal
AIM704H50B		IPM-7	3-Phase MOSFET IPM	Active High	500	2.4	—	Common	Normal

6-Channel High Voltage ICs (HVICs)

Part Number	Package	Input Logic	Output Current		V_{CC} UVLO Typ. (V)		V_{BD} UVLO Typ. (V)	
			(mA) I_{O+}	(mA) I_{O-}	Set	Reset	Set	Reset
SOP								
AGD8136A	SOP-28L	Active Low	200	350	8.2	8.9	8.2	8.9
AGD8156A	SOP-28L	Active High	200	350	8.2	8.9	8.2	8.9
AGD8236A	SOP-28L	Active Low	200	350	11.4	11.9	10	11
AGD8256A	SOP-28L	Active High	200	350	11.4	11.9	10	11
AGD8252B1	SOP-8L	Active High	200	350	11.4	11.9	10	11
AGD8252B2	SOP-8L	Active High	200	350	11.4	11.9	10	11

Insulated-Gate Bipolar Transistors (IGBTs) – Single

Part Number	Package	Configuration	V _{CE} (max) (V)	I _C (max) (A)		V _{CE(sat)} (typ) (V)	E _{ON} (typ) (mJ)	E _{OFF} (typ) (mJ)	Qg (typ) (nC)
				25°C	100°C				
TO-247									
AOKS30B60D1	TO-247	IGBT	600	60	30	2	1.1	0.24	34
AOKS40B65H2AL	TO-247	IGBT	650	80	40	2.05	1.17	0.54	61
AOKS40B60D1	TO-247	IGBT	600	80	40	1.85	1.55	0.3	45

Insulated-Gate Bipolar Transistors (IGBTs) – Co-Pack

Part Number	Package	Configuration	V _{CE} (max) (V)	I _C (max) (A)		V _{CE(sat)} (typ) (V)	E _{ON} (typ) (mJ)	E _{OFF} (typ) (mJ)	Qg (typ) (nC)	V _F (typ) (V)	Qrr (typ) (μC)	I _{rm} (typ) (A)
				25°C	100°C							
TO-220												
AOT5B65M1	TO-220	IGBT with Anti-Parallel Diode	650	10	5	1.57	0.08	0.07	14	1.8	0.24	2.78
AOT10B65M1	TO-220	IGBT with Anti-Parallel Diode	650	10	10	1.6	0.18	0.13	24	1.9	0.4	3.8
AOT10B65M2	TO-220	IGBT with Anti-Parallel Diode	650	10	10	1.6	0.18	0.13	24	1.6	0.45	4
AOT15B65M1	TO-220	IGBT with Anti-Parallel Diode	650	30	15	1.7	0.29	0.2	32	1.77	0.7	4.7
AOT15B65M3	TO-220	IGBT with Anti-Parallel Diode	650	30	15	1.95	0.28	0.19	25.4	1.9	0.4	3.8
AOT20B65M1	TO-220	IGBT with Anti-Parallel Diode	650	40	20	1.7	0.47	0.27	46	1.66	0.8	5.2
AOT5B60D	TO-220	IGBT with Anti-Parallel Diode	600	10	5	1.55	0.14	0.04	9.4	1.46	0.23	4.4
AOT10B60D	TO-220	IGBT with Anti-Parallel Diode	600	20	10	1.53	0.26	0.07	17.4	1.52	0.25	5
AOT15B60D	TO-220	IGBT with Anti-Parallel Diode	600	30	15	1.6	0.42	0.11	25.4	1.43	0.48	5.8
TO-220F												
AOTF5B60D	TO-220F	IGBT with Anti-Parallel Diode	600	10	5	1.55	0.14	0.04	9.4	1.46	0.23	4.4
AOTF5B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	10	5	1.57	0.08	0.07	14	1.8	0.24	2.78
AOTF5B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	10	5	1.57	0.08	0.07	14	1.48	0.27	3.5
AOTF10B60D	TO-220F	IGBT with Anti-Parallel Diode	600	20	10	1.53	0.26	0.07	17.4	1.52	0.25	5
AOTF10B60D2	TO-220F	IGBT with Anti-Parallel Diode	600	23	10	1.55	0.14	0.04	9.4	1.46	0.23	4.4
AOTF10B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	20	10	1.6	0.18	0.13	24	1.9	0.4	3.8
AOTF10B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	20	10	1.6	0.18	0.13	24	1.6	0.5	4
AOTF15B60D	TO-220F	IGBT with Anti-Parallel Diode	600	30	15	1.6	0.42	0.11	25.4	1.43	0.48	5.8
AOTF15B60D2	TO-220F	IGBT with Anti-Parallel Diode	600	23	15	1.53	0.26	0.07	17.4	1.52	0.25	5
AOTF15B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	30	15	1.7	0.29	0.2	32	1.77	0.7	4.7
AOTF15B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	30	15	1.7	0.29	0.2	32	1.5	0.7	5.4
AOTF15B65M3	TO-220F	IGBT with Anti-Parallel Diode	650	30	15	1.95	0.28	0.19	25.4	1.9	0.4	3.8
AOTF15B65MQ1	TO-220F	IGBT with Anti-Parallel Diode	650	30	15	1.7	0.29	0.2	32	1.65	0.24	3.9
AOTF20B65LN2	TO-220F	IGBT with Anti-Parallel Diode	650	40	20	1.54	0.45	0.26	14	1.6	0.6	5.4
AOTF20B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	40	20	1.7	0.47	0.27	46	1.66	0.8	5.2
AOTF20B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	40	20	1.7	0.58	0.28	46	1.56	0.8	5.6
TO-247												
AOGF60B65H2AL	TO-247	IGBT with Anti-Parallel Diode	650	120	60	1.95	2.36	1.17	84	1.88	0.8	6
AOK20B135D1 ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	1350	40	20	1.57	—	1.05	66	1.46	—	—
AOK20B135E1 ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	1350	40	20	1.8	—	0.8	58	1.6	—	—
AOK30B135W1	TO-247	IGBT with Anti-Parallel Diode	1350	60	30	1.8	—	1.47	62	1.6	—	—
AOK20B120E1 ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	1200	40	20	1.68	—	0.83	60.5	1.6	—	—
AOK20B120E2 ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	1200	40	20	1.75	—	0.82	53.5	1.6	—	—
AOK20B120D1 ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	1200	40	20	1.54	—	0.94	67.5	1.33	—	—

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

Insulated-Gate Bipolar Transistors (IGBTs) – Co-Pack (Continued)

Part Number	Package	Configuration	V _{CE} (max) (V)	I _C (max) (A)		V _{CE(sat)} (typ) (V)	E _{ON} (typ) (mJ)	E _{OFF} (typ) (mJ)	Qg (typ) (nC)	V _F (typ) (V)	Qrr (typ) (μC)	I _{rm} (typ) (A)
AOK30B120D2	TO-247	IGBT with Anti-Parallel Diode	1200	60	30	1.77	—	1.28	67	1.5	—	—
AOK40B120H1	TO-247	IGBT with Anti-Parallel Diode	1200	80	40	1.8	2.45	1.24	128	2.8	1.1	6.5
AOK40B120N1	TO-247	IGBT with Anti-Parallel Diode	1200	80	40	1.97	3.4	1.4	100	1.53	3	18.5
AOK40B120P1	TO-247	IGBT with Anti-Parallel Diode	1200	80	40	1.83	2.5	1.3	202	1.73	1.8	17
AOK20B65M1 ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	650	40	20	1.7	0.47	0.27	46	1.66	1.6	7.1
AOK20B65M2	TO-247	IGBT with Anti-Parallel Diode	650	40	20	1.7	0.58	0.28	46	1.56	0.8	5.6
AOK30B65M2	TO-247	IGBT with Anti-Parallel Diode	650	60	30	1.66	1.02	0.41	63	1.56	1.2	7.4
AOK40B65H1	TO-247	IGBT with Anti-Parallel Diode	650	80	40	1.9	1.27	0.46	63	2.22	1	6.2
AOK40B65H2AL	TO-247	IGBT with Anti-Parallel Diode	650	80	40	2.05	1.17	0.54	61	2.12	0.7	4.7
AOK40B65HQ1	TO-247	IGBT with Anti-Parallel Diode	650	80	40	2.05	1.19	0.38	61	1.8	0.41	5.08
AOK40B65HQ2	TO-247	IGBT with Anti-Parallel Diode	650	80	40	2.05	1.19	0.38	61	1.86	0.48	5.69
AOK40B65HQ3	TO-247	IGBT with Anti-Parallel Diode	650	80	40	2.05	1.19	0.8	61	1.65	0.24	3.7
AOK40B65M3	TO-247	IGBT with Anti-Parallel Diode	650	80	40	1.95	1.3	0.5	59	2.22	1	6
AOK50B65H1	TO-247	IGBT with Anti-Parallel Diode	650	100	50	1.9	1.92	0.85	76	2.25	0.9	6.3
AOK50B65M2	TO-247	IGBT with Anti-Parallel Diode	650	80	40	1.95	1.3	0.5	59	2.22	1	6
AOK60B65H1	TO-247	IGBT with Anti-Parallel Diode	650	120	60	1.88	2.42	1.17	90	2.08	1.2	7.8
AOK60B65H2AL	TO-247	IGBT with Anti-Parallel Diode	650	120	60	1.95	2.36	1.17	84	1.88	—	6
AOK60B65HQ3	TO-247	IGBT with Anti-Parallel Diode	650	120	60	1.95	2.21	1.2	84	1.65	0.24	3.7
AOK60B65M3	TO-247	IGBT with Anti-Parallel Diode	650	120	60	1.94	2.6	1.3	106	1.91	1.3	7.5
AOK75B65H1	TO-247	IGBT with Anti-Parallel Diode	650	150	75	1.85	3.77	2.04	109	2.15	1.2	7.9
AOK10B60D ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	600	20	10	1.53	0.32	0.07	17.4	1.52	0.25	5
AOK15B60D ⁽¹⁾	TO-247	IGBT with Anti-Parallel Diode	600	30	15	1.6	0.51	0.11	25.4	1.43	0.48	5.8
AOK20B60D1	TO-247	IGBT with Anti-Parallel Diode	600	40	20	1.85	0.76	0.18	24.6	1.35	0.43	6.5
AOK30B60D	TO-247	IGBT with Anti-Parallel Diode	600	60	30	1.6	1.18	0.2	47	1.34	0.8	9.5
AOK30B60D1	TO-247	IGBT with Anti-Parallel Diode	600	60	30	1.85	1.1	0.24	34	1.47	0.50	7
AOK40B60D	TO-247	IGBT with Anti-Parallel Diode	600	80	40	1.6	1.72	0.3	63.5	1.36	0.86	10
AOK40B60D1	TO-247	IGBT with Anti-Parallel Diode	600	80	40	1.85	1.55	0.3	45	1.42	0.63	8
AOK50B60D1	TO-247	IGBT with Anti-Parallel Diode	600	100	50	1.85	2.37	0.5	64	1.4	0.77	9
AOK60B60D1	TO-247	IGBT with Anti-Parallel Diode	600	120	60	1.85	3.1	0.73	75	1.34	0.84	10
AOK75B60D1	TO-247	IGBT with Anti-Parallel Diode	600	150	75	1.72	3.7	1.3	118	1.44	0.9	10
TO-252												
AOD5B65M1	TO-252	IGBT with Anti-Parallel Diode	650	10	5	1.57	0.08	0.07	14	1.8	0.24	2.78
AOD5B65M1H	TO-252	IGBT with Anti-Parallel Diode	650	10	5	1.57	0.08	0.07	14	1.8	0.24	2.78
AOD5B65MQ1E	TO-252	IGBT with Anti-Parallel Diode	650	10	5	2.15	0.09	0.06	8.8	2.06	0.11	2.46
AOD5B65N1	TO-252	IGBT with Anti-Parallel Diode	650	10	5	2.5	0.081	0.049	9.2	2.13	0.19	2.5
AOD5B60D	TO-252	IGBT with Anti-Parallel Diode	600	10	5	1.6	0.14	0.04	9.4	1.46	0.23	4.4
AOD6B60M1	TO-252	IGBT with Anti-Parallel Diode	600	12	6	1.7	0.12	0.09	14	1.45	0.15	3.5
AOD7B65M3	TO-252	IGBT with Anti-Parallel Diode	650	14	7	1.87	0.108	0.099	14	2.6	0.29	3
AOD8B65MQ1	TO-252	IGBT with Anti-Parallel Diode	650	16	8	1.8	0.16	0.11	22	1.52	0.2	3.49
AOB20B65M1	TO-263	IGBT with Anti-Parallel Diode	650	40	20	1.7	0.47	0.27	46	1.66	0.8	5.2

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.

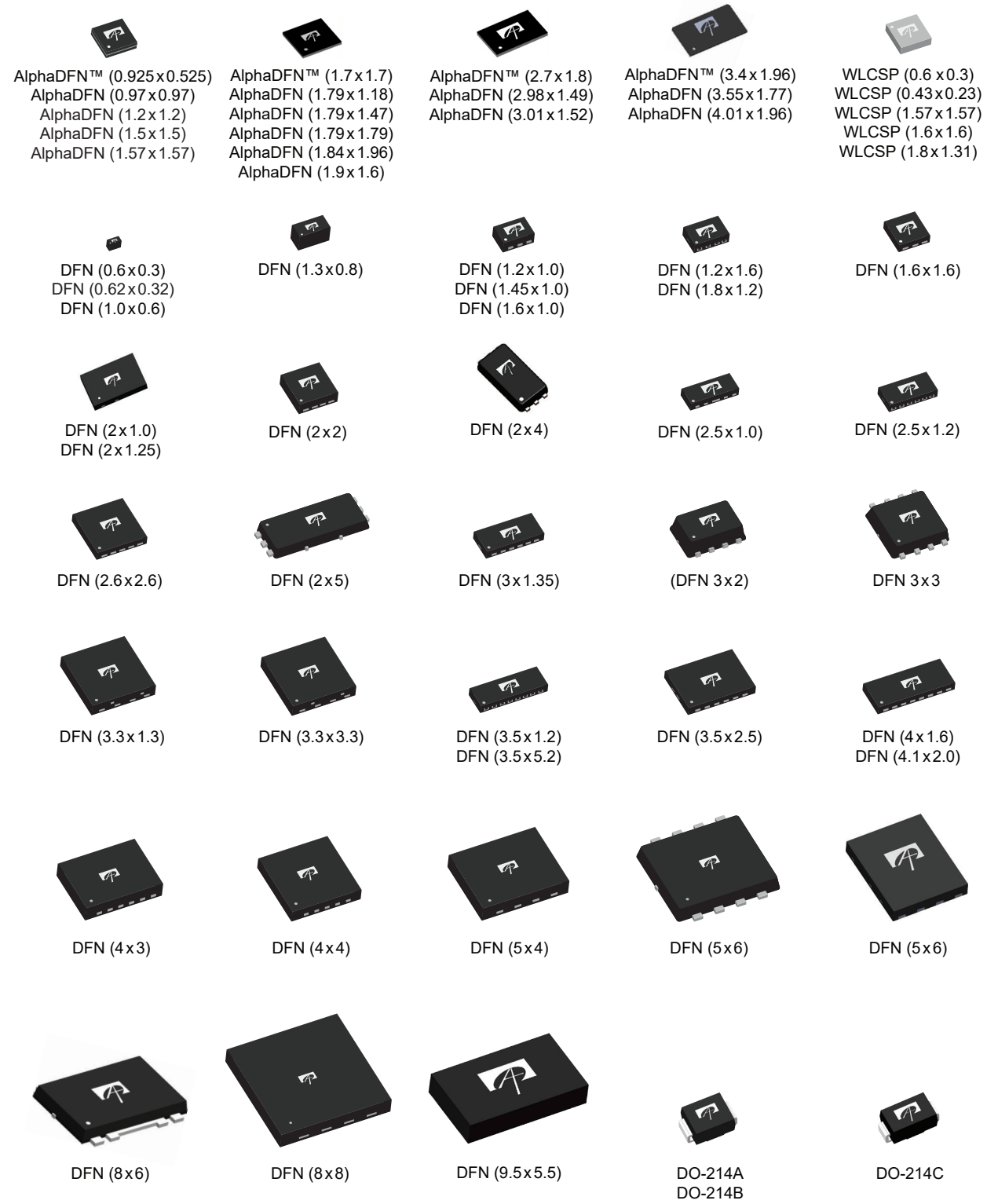
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

Insulated-Gate Bipolar Transistors (IGBTs) – Co-Pack (Continued)

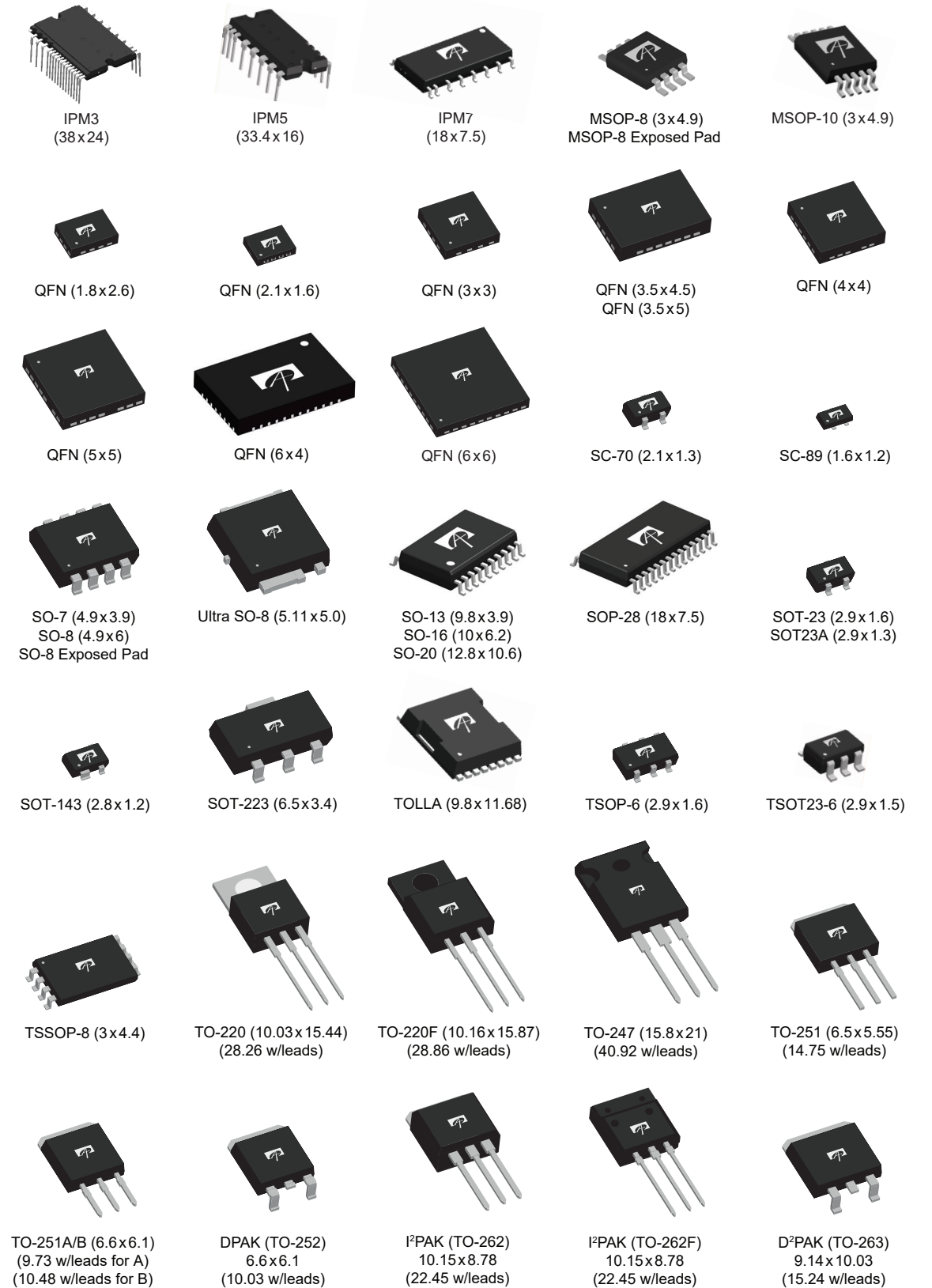
Part Number	Package	Configuration	$V_{CE(max)}$ (V)	$I_C(max)$ (A)	$V_{CE(sat)}$ (typ) (V)	E_{ON} (typ) (mJ)	E_{OFF} (typ) (mJ)	Q_g (typ) (nC)	V_F (typ) (V)	Q_{rr} (typ) (μ C)	I_{rm} (typ) (A)	
TO-263												
AOB5B65M1	TO-263	IGBT with Anti-Parallel Diode	650	10	5	1.57	0.08	0.07	14	1.8	0.24	2.78
AOB10B65M1	TO-263	IGBT with Anti-Parallel Diode	650	20	10	1.6	0.18	0.13	24	1.9	0.4	3.8
AOB15B65M1	TO-263	IGBT with Anti-Parallel Diode	650	30	15	1.7	0.29	0.2	32	1.77	0.7	4.7
AOB5B60D	TO-263	IGBT with Anti-Parallel Diode	600	10	5	1.55	0.18	0.09	9.4	1.46	0.23	4.4
AOB10B60D	TO-263	IGBT with Anti-Parallel Diode	600	20	10	1.6	0.26	0.07	17.4	1.52	0.25	5
AOB15B60D	TO-263	IGBT with Anti-Parallel Diode	600	30	15	1.6	0.42	0.11	25.4	1.43	0.48	5.8
AOB20B65M1	TO-263	IGBT with Anti-Parallel Diode	650	40	20	1.7	0.47	0.27	46	1.66	0.8	5.2

Package Type

AOS delivers advanced package technologies that meet the ever-increasing performance and power-efficiency requirements of our customers. We offer a range of package options to support a wide spectrum of end-applications, from handheld, to computing, to consumer, and high-power industrial applications.



NOTE: Images are not to scale



NOTE: Images are not to scale

Products Not Recommended for New Designs

αMOS1 High Voltage MOSFETs⁽¹⁾

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	I _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
								25°C	25°C	10V	4.5V	2.5V	1.8V	25°C	25°C	10V	4.5V	2.5V	1.8V		
DFN 8x8																					
AOV11S60	DFN8x8	Single	N	No	No	600	30	8	156	500				4.1	545	37.3	1.42	11 [†]	3.8	250	3300
AOV15S60	DFN8x8	Single	N	No	No	600	30	12	208	360				3.8	717	58	1.3	15.6 [†]	6	282	4500
AOV20S60	DFN8x8	Single	N	No	No	600	30	18	276	250				4.1	1038	68	2.1	20 [†]	7.6	350	5700
SOT-23A																					
AO3160E	SOT-23A-3	Single	N	Yes	No	600	20	0.04	1.39	500000	600000			3.2	9.5	1.7	0.6	0.9	0.49	105	9.5
TO-220																					
AOT15S60L	TO-220	Single	N	No	No	600	30	15	208	290				3.8	717	58	1.3	15.6 [†]	6	282	4500
AOT4S60	TO-220	Single	N	No	No	600	30	4	83	900				4.1	263	21	0.75	6 [†]	1.8	177	1500
AOT7S60	TO-220	Single	N	No	No	600	30	7	104	600				3.9	372	28	1.2	8.2 [†]	2.8	198	2400
AOT11S65	TO-220	Single	N	No	No	650	30	11	198	399				4	646	42	1.1	13.2 [†]	4.3	278	4200
AOT25S65	TO-220	Single	N	No	No	650	30	25	357	190				4	1278	87	1.4	26.4 [†]	9.5	408	8270
TO-220F																					
AOTF29S50	TO-220F	Single	N	No	No	500	30	29	50	150				3.9	1312	88	2.5	26.6 [†]	9.2	387	7300
AOTF11N60/L	TO-220F	Single	N	No	No	600	30	11	50	650				4.5	1656	146	11.2	30.6 [†]	9.6	500	5900
AOTF15S60/L	TO-220F	Single	N	No	No	600	30	15	27.8	290				3.8	717	58	1.3	15.6 [†]	6	282	4500
AOTF20S60/L	TO-220F	Single	N	No	No	600	30	20	50	1990				2.8	1038	68	2.1	19.8	7.6	350	5700
AOTF27S60/L	TO-220F	Single	N	No	No	600	30	27	50	160				4	1294	80	2.3	26	8.8	440	7500
AOTF42S60	TO-220F	Single	N	No	No	600	30	39	50	99				3.8	2154	135	2.7	40 [†]	11.9	473	10500
AOTF42S60L	TO-220F	Single	N	No	No	600	30	39	37.9	99				3.8	2154	135	2.7	40 [†]	11.9	473	10500
AOTF4N60/L	TO-220F	Single	N	No	No	600	30	4	35	2200				4.5	511	51	4.4	15	7.6	212	1600
AOTF4S60	TO-220F	Single	N	No	No	600	30	4	83	900				4.1	263	21	0.75	6 [†]	1.8	177	1500
AOTF7S60	TO-220F	Single	N	No	No	600	30	7	34	600				3.9	372	28	1.2	8.2 [†]	2.8	198	2400
AOTF8N80/L	TO-220F	Single	N	No	No	800	30	7.4	50	1630				4.5	1375	101	11	26	9.1	484	6000
AOTF11S65	TO-220F	Single	N	No	No	650	30	11	39	399				4	646	42	1.1	13.2 [†]	4.3	278	4200
AOTF15S65/L	TO-220F	Single	N	No	No	650	30	15	50	290				4	841	58	1.1	17.2 [†]	5.3	320	5500
AOTF25S65	TO-220F	Single	N	No	No	650	30	25	50	190				4	1278	87	1.4	26.4 [†]	9.5	408	8270
AOTF7S65/L	TO-220F	Single	N	No	No	650	30	7	25	650				4	434	30	17.5	9.2 [†]	2.7	224	2800
TO-247																					
AOK29S50	TO-247	Single	N	No	No	500	30	29	357	150				3.9	1312	88	2.5	26.6 [†]	9.2	387	7300
AOK53S60	TO-247	Single	N	No	No	600	30	53	520	70				3.8	3034	222	3	59 [†]	19	664	14000
AOK20N60L	TO-247	Single	N	No	No	600	30	20	417	370				4.5	3061	273	22.8	61	24	480	10.5
AOK20S60L	TO-247	Single	N	No	No	600	30	20	266	199				4.1	1038	68	2.1	19.8	7.6	380	5.7
AOK27S60L	TO-247	Single	N	No	No	600	30	27	357	160				4	1294	80	2.3	26	6.2	440	7.5
AOK42S60L	TO-247	Single	N	No	No	600	30	39	417	99				3.8	2154	135	2.7	40	11.9	473	10.5
TO-251																					
AOU4S60	TO-251	Single	N	No	No	600	30	4	56.8	900				4.1	263	21	0.75	6 [†]	1.8	177	1500
TO-251A																					
AOI11S60	TO-251A	Single	N	No	No	600	30	11	208	399				4.1	545	37.3	1.42	11 [†]	3.8	250	3300
AOI4S60	TO-251A	Single	N	No	No	600	30	4	56.8	900				4.1	263	21	0.75	6 [†]	1.8	177	1500
AOI7S65	TO-251A	Single	N	No	No	650	30	7	89	650				4	434	30	17.5	9.2 [†]	2.7	224	2800

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

* R_{DS(ON)} measured at V_{GS} other than 10V, 4.5V or 1.8V.
† Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

αMOS1 High Voltage MOSFETs⁽¹⁾ (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	I _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				V _{GS(th)} (max V)	C _{iss} (pF)	C _{oss} (pF)	C _{rss} (pF)	Q _g (nC)	Q _{gd} (nC)	T _{rr} (ns)	Q _{rr} (nC)
								25°C	25°C	10V	4.5V	2.5V	1.8V								
TO-252																					
AOD11S60	TO-252	Single	N	No	No	600	30	11	208	399				4.1	545	37.3	1.42	11 [†]	3.8	250	3300
AOD4S60	TO-252	Single	N	No	No	600	30	4	56.8	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
AOD7S60	TO-252	Single	N	No	No	600	30	7	83	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
AOD7S65	TO-252	Single	N	No	No	650	30	7	89	650			4	434	30	17.5	9.2 [†]	2.7	224	2800	
TO-262																					
AOW29S50	TO-262	Single	N	No	No	500	30	29	357	150			3.9	1312	88	2.5	26.6 [†]	9.2	387	7300	
AOW11S60	TO-262	Single	N	No	No	600	30	11	178	399			4.1	545	37.3	1.42	11 [†]	3.8	250	3300	
AOW15S60	TO-262	Single	N	No	No	600	30	15	208	290			3.8	717	58	1.3	15.6 [†]	6	282	4500	
AOW20S60	TO-262	Single	N	No	No	600	30	20	266	199			4.1	1038	68	2.1	19.8 [†]	7.6	350	5700	
AOW4S60	TO-262	Single	N	No	No	600	30	4	83	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
AOW7S60	TO-262	Single	N	No	No	600	30	7	104	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
AOW11S65	TO-262	Single	N	No	No	650	30	11	198	399			4	646	42	1.1	13.2 [†]	4.3	278	4200	
AOW15S65	TO-262	Single	N	No	No	650	30	15	208	290			4	841	58	1.1	17.2 [†]	5.6	320	5500	
AOW25S65	TO-262	Single	N	No	No	650	30	25	357	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
AOW7S65	TO-262	Single	N	No	No	650	30	7	104	650			4	434	30	1	9.2 [†]	2.7	224	2800	
TO-262F																					
AOWF11S60	TO-262F	Single	N	No	No	600	30	11	28	399			4.1	545	37.3	1.42	11 [†]	3.8	250	3300	
AOWF15S60	TO-262F	Single	N	No	No	600	30	15	27.8	290			3.8	717	58	1.3	15.6 [†]	6	282	4500	
AOWF20S60	TO-262F	Single	N	No	No	600	30	20	28	199			4.1	1038	68	2.1	19.8 [†]	7.6	350	5700	
AOWF4S60	TO-262F	Single	N	No	No	600	30	4	83	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
AOWF7S60	TO-262F	Single	N	No	No	600	30	7	25	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
AOWF11S65	TO-262F	Single	N	No	No	650	30	11	28	399			4	646	42	1.1	13.2 [†]	4.3	278	4200	
AOWF15S65	TO-262F	Single	N	No	No	650	30	15	28	290			4	841	58	1.1	17.2 [†]	5.3	320	5500	
AOWF25S65	TO-262F	Single	N	No	No	650	30	25	28	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
AOWF7S65	TO-262F	Single	N	No	No	650	30	7	25	650			4	434	30	1	9.2 [†]	2.7	224	2800	
TO-263																					
AOB27S60L	TO-263	Single	N	No	No	600	30	27	357	160			4	1294	80	2.3	26 [†]	8.8	440	7500	
AOB42S60L	TO-263	Single	N	No	No	600	30	37	417	109			3.8	2154	135	2.7	40 [†]	11.9	473	10500	
AOB4S60	TO-263	Single	N	No	No	600	30	4	83	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
AOB7S60	TO-263	Single	N	No	No	600	30	7	104	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
AOB11S65	TO-263	Single	N	No	No	650	30	11	198	399			4	646	42	1.1	13.2 [†]	4.3	278	4200	
AOB15S65	TO-263	Single	N	No	No	650	30	15	208	290			4	841	58	1.1	17.2 [†]	5.3	320	5500	
AOB25S65	TO-263	Single	N	No	No	650	30	25	357	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
AOB7S65	TO-263	Single	N	No	No	650	30	7	104	650			4	434	30	17.5	9.2 [†]	2.7	224	2800	

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
 2. On-resistance Static Source-Source, otherwise Static Drain-Source.

* R_{DS(ON)} measured at V_{GS} other than 10V, 4.5V or 1.8V.
 † Q_g measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.



Powering a Greener Future™

