

Selector Guide

Summer/Fall 2014

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 and Power IC 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, tablets, smart phones, flat panel TVs, LED lighting, battery packs, consumer and industrial motor controls, and power supplies for TVs, computers, servers and telecommunications equipment.

					
MARKET SEGMENTS					
	Computing / Conventional	Computing / Advanced	Consumer	Industrial / Power Supplies	Communications
APPLICATIONS	■ Notebooks ■ Netbooks ■ Desktops ■ NB Battery Packs ■ Game Consoles	■ Servers ■ Data Storage Devices ■ Ultra Notebooks ■ Tablets ■ Graphic Cards	■ TV DC-DC Conversion ■ LED Drivers ■ LED Backlighting ■ White Goods	■ Motor Controls ■ Power Supplies ■ Lighting ■ Welding	■ Cell Phones ■ Telecom Power ■ Networking ■ Battery Packs
KEY FAMILIES / PLATFORMS	■ Low and Medium Voltage MOSFETs – Gen 5 – XSFET Family – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V AlphaMOSI and AlphaMOSII – 600V IGBT/FRD	■ Power IC – DC-DC EZBuck – DrMOS – Smart Load Management ■ Low and Medium Voltage MOSFETs – Gen 5 – XSFET Family – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V AlphaMOSI and AlphaMOSII – 600V IGBT/FRD	■ Power IC – DC-DC EZBuck – DrMOS – Smart Load Management ■ Low and Medium Voltage MOSFETs – Gen 5 – SGT	■ Medium Voltage MOSFETs – XSFET Family – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V AlphaMOSI and AlphaMOSII – 600V IGBT/FRD	■ Power IC – DC-DC EZBuck – DrMOS – Smart Load Management ■ Low and Medium Voltage MOSFETs – Gen 5 – XSFET Family – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V AlphaMOSI and AlphaMOSII – 600V IGBT/FRD



DIVERSE CUSTOMER BASE

Telecom	Consumer		PC	Industrial
	Black Goods	White Goods		
■ Nokia Siemens Networks ■ Efore ■ Alcatel-Lucent ■ ZTE ■ H3C ■ Murata ■ Belfuse ■ Emerson	■ Haier ■ Hisense ■ Changhong ■ Sony ■ Skyworth ■ TCL ■ LG ■ Samsung	■ Nidec ■ Microsteps ■ Samsung	■ Apple ■ Dell ■ Asus ■ Hewlett Packard ■ Acer ■ Lenovo	■ Tyco ■ BYD ■ Emerson ■ Chicony ■ Philips

CERTIFICATIONS FOR AOS & APM PLANTS:

- ISO 9001 (Quality Manangement System)
- ISO 14001 (Environmental Manangement System)
- QC 080000 (Hazardous Substance Manangement System)
- Sony's Green Partner Program
- TS16949 (to be certified in 2014)

PASSED AUDITS BY MAJOR CUSTOMERS:

- Alcatel-Lucent
- Delta
- Hewlett Packard
- Microsoft
- Panasonic
- Sanyo
- Apple
- Emerson
- Lenovo
- Motorola
- Philips
- Sony
- Dell
- General Electric
- LG
- Nokia Siemens Networks
- Samsung

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TABLE OF CONTENTS

Power ICs

DC-DC Buck Regulators - Non Synchronous EZBuck™ Family.....	4
DC-DC Buck Regulators - Synchronous EZBuck™ Family.....	6
DC-DC Boost Regulators - EZBuck™ Family.....	8
Multiple Output Regulators Family.....	8
Smart Load Switches	8
DrMOS™ Power Modules.....	10
Linear Regulators - LDOs.....	10
Power Factor Correction (PFC)	10
Analog Switches	10
High-Speed USB Switches	10

Transient Voltage Suppressors (TVS)

High Current Surge TVS.....	12
Ultra-Low Capacitance TVS	12
Diode Arrays	14
EMI Filters	16

MOSFETs and IGBTs

Low Voltage MOSFETs (<40V)

By Package Type

WLCSP 1.57x1.57 / 1.6x1.6.....	18
AlphaDFN 0.97x0.97	18
AlphaDFN 1.57x1.57	18
AlphaDFN 3.2x2.0.....	18
SC-70	18
SC-89	20
SOT-23	20
TSOP-6.....	20
TSSOP-8	22
DFN 1.6x0.6.....	22
DFN 1.6x1.6.....	22
DFN 2x2	22
DFN 2x5	24
DFN 3x2	24
DFN 3x3	24
DFN 3.3x3.3.....	26
DFN 5x6	28
SO-8.....	32
Ultra SO-8.....	36
TO-220	36
TO-251A	36
TO-251B	36
TO-252	36
TO-263	38

Medium Voltage MOSFETs (40V to 400V)

By Package Type

SC-89	40
SOT-223	40
SOT-23.....	40
TSOP-6	40
DFN 2x2	40
DFN 3x3	40
DFN 3.3x3.3	40
DFN 5x6	40
SO-8.....	42
Ultra SO-8	44
TO-220	44
TO-220F	46
TO-247	48
TO-251A.....	48
TO-252	48
TO-262	50
TO-262F	50
TO-263	50

High Voltage MOSFETs (>400V)

By Package Type

SOT-23.....	54
DFN 8x8	54
TO-220	54
TO-220F	56
TO-247	58
TO-251	58
TO-251A.....	60
TO-251B.....	60
TO-252	60
TO-262	62
TO-262F	62
TO-263	64

Insulated-Gate Bipolar Transistors (IGBTs)

By Package Type

TO-220	66
TO-220F	66
TO-247	66
TO-252	66
TO-263	66

Package Types

68

POWER ICs

AOS provides best-in-class power management solutions combining Power Discrete and IC technologies. The portfolio of EZPower™ smart load switches, analog switches, and power factor correction (PFC) devices. AOS's approach is to provide

products includes EZBuck™ Step-down DC/DC regulators, EZBoost™ Step-up DC/DC regulators, linear regulators, high-power density solutions to reduce design complexity and development time.

DC-DC Buck Regulators – Non Synchronous EZBuck™ Family

Part Number	Description	Integrated Schottky	Soft Start	Product Type	Package	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)
AOZ1015AI	1.5 A EZBuck Regulator	Yes	Internal - 2.2 ms	Buck	SO-8	4.5	16.0	1.5	0.8	16.0	500
AOZ1016AI	2 A EZBuck Regulator	Yes	Internal - 2.2 ms	Buck	SO-8	4.5	16.0	2.0	0.8	16.0	500
AOZ1016AIL	2 A EZBuck Regulator	Yes	Internal - 2.2 ms	Buck	SO-8	4.5	18.0	2.0	0.8	16.0	500
AOZ1017AI	3 A EZBuck Regulator	No	Internal - 2.2 ms	Buck	SO-8	4.5	16.0	3.0	0.8	16.0	500
AOZ1017AIL	3 A EZBuck Regulator	No	Internal - 2.2 ms	Buck	SO-8	4.5	18.0	3.0	0.8	16.0	500
AOZ1019AI	2 A EZBuck Regulator	No	Internal - 4.0 ms	Buck	SO-8	4.5	16.0	2.0	0.8	16.0	500
AOZ1056AI	2 A EZBuck Regulator	Yes	External - Programmable	Buck	SO-8	4.5	16.0	2.0	0.8	16.0	340
AOZ1057AIL	3 A EZBuck Regulator	No	External - Programmable	Buck	SO-8	4.5	16.0	3.0	0.8	16.0	340
AOZ1081AI	1.8 A EZBuck LED Driver	Yes	Internal - 0.4 ms	Buck	SO-8	4.5	16.0	1.8	0.25	16.0	1000
AOZ1083CI	1.2 A EZBuck LED Driver	No	Internal - 0.4 ms	Buck	SOT-23	3.0	26.0	1.2	0.28	23.8	1500
AOZ1084DI	1.2 A EZBuck LED Driver	No	Internal - 0.6 ms	Buck	DFN 2x2	4.5	36.0	1.2	0.16	30.0	450
AOZ1092DI	3 A EZBuck Regulator	Yes	Internal - 2.2 ms	Buck	DFN 5x4	4.5	16.0	3.0	0.8	16.0	500
AOZ1094AIL	5 A EZBuck Regulator	No	Internal - 3.0 ms	Buck	SO-8	4.5	16.0	5.0	0.8	16.0	500
AOZ1094DIL	5 A EZBuck Regulator	No	Internal - 3.0 ms	Buck	DFN 5x4	4.5	16.0	5.0	0.8	16.0	500
AOZ1210AI	2 A, 4.5 V to 27 V EZBuck Regulator	No	Internal - 4.0 ms	Buck	SO-8	4.5	27.0	2.0	0.8	23.0	370
AOZ1212AI	3 A, 4.5 V to 27 V EZBuck Regulator	No	Internal - 6.0 ms	Buck	SO-8	4.5	27.0	3.0	0.8	23.0	370
AOZ1212DI	3 A, 4.5 V to 27 V EZBuck Regulator	No	Internal - 6.0 ms	Buck	DFN 5x4	4.5	27.0	3.0	0.8	23.0	370
AOZ1240AI	2 A, 4.5 V to 32 V EZBuck Regulator	No	Internal - 4.0 ms	Buck	SO-8	4.5	32.0	2.0	0.8	32.0	370
AOZ1242AI	3 A, 4.5 V to 32 V EZBuck Regulator	No	Internal - 4.0 ms	Buck	SO-8	4.5	32.0	3.0	0.8	32.0	370
AOZ1242DI	3 A, 4.5 V to 32 V EZBuck Regulator	No	Internal - 4.0 ms	Buck	DFN 5x4	4.5	32.0	3.0	0.8	32.0	370
AOZ1280CI	1.2 A, 3 V to 26 V EZBuck Regulator	No	Internal - 0.4 ms	Buck	SOT-23	3.0	26.0	1.2	0.8	26.0	1500
AOZ1281DI	1.8 A, 3 V to 26 V EZBuck Regulator	No	Internal - 0.4 ms	Buck	DFN 2x2	3.0	26.0	1.8	0.8	22.0	1500
AOZ1282CI	1.2 A, 4.5 V to 36 V EZBuck Regulator	No	Internal - 1.5 ms	Buck	SOT-23	4.5	36.0	1.2	0.8	36.0	450
AOZ1282CI-1	NEW 600 mA, 4.5 V to 36 V EZBuck Regulator	No	Internal - 0.6 ms	Buck	SOT-23	4.5	36.0	0.6	0.8	36.0	1000
AOZ1282DI	1.2 A, 4.5 V to 36 V EZBuck Regulator	No	Internal - 1.5 ms	Buck	DFN 2x2	4.5	36.0	1.2	0.8	36.0	450
AOZ1283PI	2.5 A, 3 V to 36 V EZBuck Regulator	No	External - Programmable	Buck	Exposed Pad SO-8	3.0	36.0	2.5	0.8	30.0	2000
AOZ1284PI-1	4 A, 3 V to 36 V EZBuck Regulator	No	External - Programmable	Buck	Exposed Pad SO-8	3.0	36.0	4.0	0.8	16.0	2000
AOZ1948AI	Single Channel LED Driver Controller	N/A	N/A	Buck	SO-8	8.0	16.0	N/A	N/A	N/A	100

DC-DC Buck Regulators – Synchronous EZBuck™ Family

Part Number	Description	PGOOD	Soft Start	Product Type	Package	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)
AOZ1020AI	2 A EZBuck Regulator with PGOOD	Yes	Internal - 4.0 ms	Buck	SO-8	4.5	16.0	2.0	0.8	16.0	500
AOZ1021AI	3 A EZBuck Regulator	No	Internal - 5.0 ms	Buck	SO-8	4.5	16.0	3.0	0.8	16.0	500
AOZ1022PI	3 A EZBuck Regulator with PGOOD	Yes	Internal - 5.0 ms	Buck	DFN 5x4	4.5	16.0	3.0	0.8	16.0	500
AOZ1022DI-1	3 A EZBuck Regulator with PGOOD	Yes	Internal - 5.0 ms	Buck	DFN 5x4	4.5	16.0	3.0	0.8	16.0	500
AOZ1024DI	4 A EZBuck Regulator	No	Internal - 5.0 ms	Buck	DFN 5x4	4.5	16.0	4.0	0.8	16.0	500
AOZ1025DIL	8 A EZBuck Regulator with PGOOD	Yes	Internal - 4.0 ms	Buck	DFN 5x4	4.75	16.0	8.0	0.8	16.0	500
AOZ1031AI	3 A EZBuck Regulator with Light Load Mode	No	Internal - 2.2 ms	Buck	SO-8	4.5	18.0	3.0	0.8	18.0	600
AOZ1033AI	3 A EZBuck Regulator with Light Load Mode	No	Internal - 3.0 ms	Buck	SO-8	4.5	18.0	3.0	0.8	18.0	600
AOZ1034DI	4 A EZBuck Regulator with Light Load Mode	No	Internal - 3.0 ms	Buck	DFN 5x4	4.5	18.0	4.0	0.8	18.0	500
AOZ1034PI	4 A EZBuck Regulator with Light Load Mode	No	Internal - 3.0 ms	Buck	Exposed Pad SO-8	4.5	18.0	4.0	0.8	18.0	500
AOZ1036DI	5 A EZBuck Regulator with Light Load Mode	No	Internal - 3.0 ms	Buck	DFN 5x4	4.5	18.0	5.0	0.8	18.0	500
AOZ1036PI	5 A EZBuck Regulator with Light Load Mode	No	Internal - 3.0 ms	Buck	Exposed Pad SO-8	4.5	18.0	5.0	0.8	18.0	500
AOZ1037PI	5 A EZBuck Regulator with PGOOD	Yes	Internal - 3.0 ms	Buck	Exposed Pad SO-8	4.5	18.0	5.0	0.8	18.0	500
AOZ1038DI	6 A EZBuck Regulator with Light Load Mode	Yes	Internal - 3.0 ms	Buck	DFN 5x6	4.5	18.0	6.0	0.8	18.0	500
AOZ1038DI-1	6 A EZBuck Regulator	No	Internal - 6.0 ms	Buck	DFN 5x6	4.5	18.0	6.0	0.8	16.0	450
AOZ1038PI	6 A EZBuck Regulator with Light Load Mode	Yes	Internal - 3.0 ms	Buck	Exposed Pad SO-8	4.5	18.0	6.0	0.8	18.0	500
AOZ1039DI	8 A EZBuck Regulator	No	Internal - 6.0 ms	Buck	DFN 5x6	4.5	18.0	8.0	0.8	1.2	450
AOZ1050PI	2 A EZBuck Regulator with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	2.0	0.8	15.3	500
AOZ1051PI	3 A EZBuck Regulator with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
AOZ1052PI	4 A EZBuck Regulator with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	4.0	0.8	15.3	450
AOZ1053PI	5 A EZBuck Regulator with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	5.0	0.8	15.3	450
AOZ1110QI	4 A EZBuck Regulator with PGOOD	Yes	External - Programmable	Buck	QFN 4x4	2.7	5.5	4.0	0.8	5.5	1000/500
AOZ1231QI-01	4 A COT EZBuck Regulator	Yes	External - Programmable	Buck	QFN 5x5	4.5	28.0	4.0	0.8	24.0	1000
AOZ1232QI-01	6 A COT EZBuck Regulator	Yes	External - Programmable	Buck	QFN 5x5	2.7	28.0	6.0	0.8	24.0	1000
AOZ1233QI-01	8 A COT EZBuck Regulator	Yes	External - Programmable	Buck	QFN 5x5	2.7	28.0	8.0	0.8	24.0	1000
AOZ1236QI-01	NEW 6 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	2.7	28.0	6.0	0.8	24.0	1000
AOZ1236QI-02	NEW 6 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	2.7	24.0	6.0	0.8	20.0	1000
AOZ1237QI-01	NEW 8 A COT EZBuck Regulator	Yes	External - Programmable	Buck	QFN 4x4	2.7	28.0	8.0	0.8	24.0	1000
AOZ1237QI-02	8 A COT EZBuck Regulator	Yes	External - Programmable	Buck	QFN 4x4	2.7	24.0	8.0	0.8	20.0	1000
AOZ1252PI	2 A EZBuck with Light Load Mode	No	Adjustable	Buck	Exposed Pad SO-8	4.5	26.0	2.0	0.6	26.0	620
AOZ1253PI	3 A EZBuck with Light Load Mode	No	Adjustable	Buck	Exposed Pad SO-8	4.5	26.0	3.0	0.6	26.0	620
AOZ1254PI	4 A EZBuck with Light Load Mode	No	Adjustable	Buck	Exposed Pad SO-8	4.5	26.0	4.0	0.6	22.0	620
AOZ1267QI-01	NEW 8 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	2.7	28.0	8.0	0.8	24.0	1000
AOZ1267QI-02	NEW 8 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	2.7	24.0	8.0	0.8	20.0	1000
AOZ1268QI-01	NEW 10 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	6.5	28.0	10.0	0.8	24.0	1000
AOZ1268QI-02	NEW 10 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	6.5	24.0	10.0	0.8	20.0	1000
AOZ1269QI-02	NEW 12 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	2.7	28.0	12.0	0.8	24.0	1000
AOZ1605DI	500 mA, 3 MHz Sync Buck with Light Load Mode	No	Internal - 0.7 ms	Buck	DFN 2x2	2.5	5.5	0.5	0.6	5.5	3000
AOZ1615DI	1.5 A ,3 MHz Sync Buck Regulator	No	Internal - 0.7 ms	Buck	DFN 2x3	2.5	5.5	1.5	0.6	5.5	3000
AOZ2236QI-01	NEW 6 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	2.7	28.0	6.0	0.8	24.0	1000
AOZ2237QI-01	NEW 8 A COT EZBuck Regulator	Yes	Adjustable	Buck	QFN 4x4	2.7	28.0	8.0	0.8	24.0	1000
AOZ3010PI	2 A EZBuck with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	2.0	0.8	15.3	500
AOZ3011PI	3 A EZBuck with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
AOZ3013PI	3 A EZBuck with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
AOZ3015AI	3 A EZBuck with Light Load Mode	No	Internal - 5.0 ms	Buck	SO-8	4.5	18.0	3.0	0.8	15.3	500
AOZ3015PI	3 A EZBuck with Light Load Mode	No	Internal - 5.0 ms	Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
AOZ3017PI	4 A EZBuck with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	4.0	0.8	15.3	500

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

Part Number	Description	PGOOD	Soft Start	Product Type	Package	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)
AOZ3018PI	5 A EZBuck with External Soft-Start	No	External - Programmable	Buck	Exposed Pad SO-8	4.5	18.0	5.0	0.8	15.3	500
AOZ3024PI	3 A EZBuck with Power Good	Yes	Internal - 4.5 ms	Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
AOZ3046PI	NEW 4 A EZBuck Regulator	No	Internal - 4 ms	Buck	Exposed Pad SO-8	7.5	18.0	4.0	0.8	15.3	500
AOZ3048PI	NEW 5 A EZBuck Regulator	No	Internal - 4 ms	Buck	Exposed Pad SO-8	7.5	18.0	5.0	0.8	15.3	500

DC-DC Boost Regulators – EZBoost™ Family

Part Number	Description	Integrated Schottky	Product Type	Package	Min V _{IN} (V)	Max V _{IN} (V)	I _{SW} SWITCH CURRENT LIMIT (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)
AOZ1905DI	2.7 V to 5.5 V EZBoost Regulator	No	Boost	DFN 3x3	2.7	5.5	2 A	Vin*1.2	24.0	600 kHz / 1.2 MHz
AOZ1905FI	2.7 V to 5.5 V EZBoost Regulator	No	Boost	MSOP-8	2.7	5.5	2 A	Vin*1.2	24.0	600 kHz / 1.2 MHz
AOZ1915DI	2.7 V to 5.5 V EZBoost Regulator	No	Boost	DFN 4x3	2.7	5.5	2 A	Vin*1.2	24.0	600 kHz / 1.2 MHz
AOZ1935QI	2.7 V to 25 V Boost 30-LED Driver	No	Boost	QFN 3x3	2.7	25.0	N/A	Vin*1.2	44.0	800
AOZ1950DI	LED EZBoost Driver	No	Boost	DFN 3x3	2.7	5.5	750	Vin*1.2	57.0	Fixed off time
AOZ1977AI	High Voltage Boost LED Driver Controller	No	Boost	SO-16	8.0	N/A	N/A	N/A	N/A	Adjustable
AOZ1977AI-1	High Voltage Boost LED Driver Controller	No	Boost	SO-16	8.0	N/A	N/A	N/A	N/A	Adjustable
AOZ1978AI	High Voltage Boost LED Driver Controller	No	Boost	SO-20	8.0	N/A	N/A	N/A	N/A	200

Multiple Output Regulator Family

Part Number	Description	Number of Outputs	DC/DC Product Type	Package	Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)
AOZ1213DI	3 A EZBuck Regulator with 1 A LDO Controller	2	Non-sync Buck	DFN 4x3	4.5	26.0	3 (Buck) 1 (LDO controller)	0.8	22.0	370
AOZ1214DI	3 A EZBuck Regulator with 1 A LDO Controller with Separate Enables	2	Non-sync Buck	DFN 4x3	4.5	28.0	3 (Buck) 1 (LDO controller)	0.8	22.0	370

Smart Load Switches – EZPower™ Family

Part Number		Description	V _{IN} (V)	Turn On Rise Time (T _r)	Channel	Enable	Current Limit	Fault Latch	R _{DS(ON)} (mOhm) (Typ)	Package
AOZ1310CI-1		Single USB Load Switch	2.7 - 5.5	1.5 ms	1	Active High	0.75 A	Yes	80	SOT-23
AOZ1312AI-1		Single USB Load Switch	2.7 - 5.5	1.5 ms	1	Active High	2.0 A	Yes	70	SO-8
AOZ1312EI-1		Single USB Load Switch	2.7 - 5.5	1.5 ms	1	Active High	2.0 A	Yes	70	eMSOP
AOZ1320CI		Slew Rate Controlled Smart Load Switch	1.8 - 5.5	100 μs, 0.5 μs, 1.0 ms	1	CMOS/TTL Compatible	No	Yes	75	SOT-23
AOZ1320DI		Slew Rate Controlled Smart Load Switch	1.8 - 5.5	100 μs, 0.5 μs, 1.0 ms	1	CMOS/TTL Compatible	No	Yes	75	DFN 2x2
AOZ1321DI		Slew Rate Controlled Smart Load Switch	1.6 - 5.5	1.0 μs, 100 μs, 800 μs	1	CMOS/TTL Compatible	No	Yes	60	DFN 1.2x1.6
AOZ1360AI		EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable	1	CMOS/TTL Compatible	Adjustable	Yes	35	SO-8
AOZ1360DI		EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable	1	CMOS/TTL Compatible	Adjustable	Yes	35	DFN 4x4
AOZ1361DI		EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable	1	CMOS/TTL Compatible	Adjustable	Yes	35	DFN 4x4
AOZ1334DI-01	NEW	Single Channel Smart Load Switch	0.8 - 5.5	10 μs	1	CMOS/TTL Compatible	10	No	5	DFN 3x3
AOZ1334DI-02	NEW	Single Channel Smart Load Switch	0.8 - 5.5	0.5 ms	1	CMOS/TTL Compatible	10	No	5	DFN 3x3
AOZ1336DI	NEW	Single Channel Smart Load Switch	0.8 - 5.5	Adjustable	1	CMOS/TTL Compatible	4	No	27	DFN 2x2
AOZ1325DI		Dual Slew Rate Controlled Smart Load Switch	1.6 - 5.5	1.0 ms	2	CMOS/TTL Compatible	No	Yes	150	DFN 3x3
AOZ1331DI	NEW	Dual Channel Smart Load Switch	0.8 - 5.5	Adjustable	2	CMOS/TTL Compatible	6.0 A	No	20	DFN 3x2
AOZ1341AI		Dual USB Load Switch	2.7 - 5.5	1.5 ms	2	CMOS/TTL Compatible	1.5 A	Yes	70	SO-8
AOZ1341AI-1		Dual USB Load Switch	2.7 - 5.5	1.5 ms	2	CMOS/TTL Compatible	1.5 A	Yes	70	SO-8
AOZ1341EI		Dual USB Load Switch	2.7 - 5.5	1.5 ms	2	CMOS/TTL Compatible	1.5 A	Yes	70	eMSOP
AOZ1341EI-1		Dual USB Load Switch	2.7 - 5.5	1.5 ms	2	CMOS/TTL Compatible	1.5 A	Yes	70	eMSOP
AOZ1342PI		Dual USB Load Switch	2.7 - 5.5	1.5 ms	2	Active Low	2.0 A	Yes	70	Exposed Pad SO-8
AOZ1342PI-1		Dual USB Load Switch	2.7 - 5.5	1.5 ms	2	Active High	2.0 A	Yes	70	Exposed Pad SO-8

DrMOS Power Modules

Part Number		Min V _{IN} (V)	Max V _{IN} (V)	Max Current (A)	PWM Logic	Package
AOZ5019QI		4.5	25.0	30.0	5.0 V	QFN-23: 3.5x5
AOZ5036QI-01	NEW	4.5	16.0	60.0	3.3 V	QFN-40: 6x6
AOZ5066QI		4.5	25.0	60.0	5.0 V	QFN-40: 6x6
AOZ5066QI-01		4.5	25.0	60.0	3.3 V	QFN-40: 6x6

Linear Regulators – LDOs

Part Number		Min V _{IN} (V)	Max V _{IN} (V)	Min V _{OUT} (V)	Max I _{OUT} (A)	Dropout Voltage	Package
AOZ2002PI	NEW	1.35	5.5	0.8	2.0	180 mV @ 2 A	Exposed Pad SO-8
AOZ2003PI		1.35	5.5	0.8	3.0	270 mV @ 3 A	Exposed Pad SO-8

Power Factor Correction (PFC)

Part Number	Description	PFC Mode	Freq. Operation	Control Mode	Topology	Max Freq. Limit (Typ.) KHz	V _{CC} Max (V)	Drive Capability (mA)	ULVO (V)	OVP Latch	Min On-Time (Typ.) nS	Package
AOZ7110AI	Critical Conduction Mode PFC Controller	CRM	Variable	Voltage	Step-up	350	20.0	+300/-800	9.5-12	Yes	180	SOIC-8
AOZ7111AI	Critical Conduction Mode PFC Controller	CRM	Variable	Voltage	Step-up	350	20.0	+300/-800	9.5-12	Yes	450	SOIC-8

Analog Switches

Part Number	Description	On Resistance R _{ON} (Typ.) at 2.7V	On Resistance Flatness RFLAT _(ON) (Max) at 2.7V	Supply Voltage Range V _{CC}	Total Harmonic Distortion THD (Typ.)%	Package
AOZ6115CI	Single SPST	2.0 Ω at 4.5 V	0.25 Ω at 4.5 V	1.65 V to 5.5 V	0.005 %	SOT-23
AOZ6115HI	Single SPST	2.0 Ω at 4.5 V	0.25 Ω at 4.5 V	1.65 V to 5.5 V	0.005 %	SC-70
AOZ6134DI	Single SPDT	0.6 Ω at 4.5 V	0.25 Ω at 4.5 V	1.65 V to 5.5 V	0.002 %	DFN 1.2x1.0
AOZ6135HI	Single SPDT	0.9 Ω at 4.5 V	0.25 Ω at 4.5 V	1.65 V to 5.5 V	0.005 %	SC-70
AOZ6232QI	Dual SPDT	0.25 Ω	0.15 Ω	1.65 V to 3.3 V	0.024 %	QFN10: 2.1x1.6
AOZ6233QI	Dual SPDT	0.35 Ω	0.15 Ω	1.65 V to 3.3 V	0.024 %	QFN10: 2.1x1.6
AOZ6234QI	Dual SPDT	0.40 Ω	0.15 Ω	1.65 V to 4.3 V	0.024 %	QFN10: 2.1x1.6
AOZ6274QI	Dual DPDT	0.40 Ω	0.15 Ω	1.65 V to 4.3 V	0.024 %	QFN16: 3x3
AOZ6275QI	Dual DPDT	0.35 Ω	0.25 Ω	1.65 V to 4.3 V	0.01 %	QFN16: 1.8x2.6

High-Speed USB Switches

Part Number	Description	On Resistance R _{ON} (Typ.) at 3.6V	On Capacitance C _(ON) (Typ.) at 3.3V	Supply Voltage Range V _{CC}	-dB Bandwidth Hz (Typ.)	Package
AOZ6184QT	High Speed (USB2.0) DPDT; Bandwidth 1.1 GHz	8.0 Ω	3.6 Ω	1.65 V to 4.5 V	1.1 G	QFN10: 1.4x1.8
AOZ6185QT	High Speed (USB2.0) DPDT w/Flat R _{ON} Bandwidth 990 MHz	7.2 Ω	1.9 Ω	1.65 V to 4.5 V	990 M	QFN10: 1.4x1.8
AOZ6186QT	High Speed (USB2.0) DPDT; Bandwidth 960 MHz	7.0 Ω	5.0 Ω	1.65 V to 4.5 V	960 M	QFN10: 1.4x1.8

TRANSIENT VOLTAGE SUPPRESSORs (TVS)

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

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

High Current Surge TVS

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V_{RWM} Max	IEC 61000-4-5 (Lightning)	Channel Input Capacitance I/O - GND Typ.	Channnel Clamp Voltage (Ipp = 5A) V_{CL} Max.	Package
		Contact	Air						
AOZ8202CI-12	1-Line Bidirectional TVS Diode	± 30 kV	± 30 kV	1	12.0 V	15 A	62 pF	19.0 V	SOT-23
AOZ8311DI-26	1-Line High Surge TVS Diode	± 30 kV	± 30 kV	1	26.0 V	Null	90 pF	46 V (Ipp = 9 A)	DFN 1.6x 0.8
AOZ8302CI-05	2-Line TVS Diode Array	± 30 kV	± 30 kV	2	5.0 V	32 A	25 pF	14.0 V (Ipp = 15 A)	SOT-23
AOZ8302CI-12	2-Line TVS Diode Array	± 30 kV	± 30 kV	2	12.0 V	24 A	25 pF	19.0 V (Ipp = 15 A)	SOT-23
AOZ8304DI	Ultra-Low Capacitance TVS Diode Array	± 24 kV	± 24 kV	4	3.3 V	25 A	3.5 pF	7.0 V	DFN 2.6x2.6
AOZ8318DI	NEW Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4	2.5 V	25 A	3.5 pF	3.5 V	DFN 2.6x2.6

Ultra-Low Capacitance TVS

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V_{RWM} Max	Channel Input Capacitance		Channnel Clamp Voltage (Ipp=5A) V_{CL} Max.	Package
		Contact	Air			I/O - I/O Typ.	I/O - GND Typ.		
AOZ8001AJI-05	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	2	5.5 V	0.1 pF	2.5 pF	15.0 V	SOT-143
AOZ8001AJI-12	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	2	12.5 V	0.1 pF	2.5 pF	18.0 V	SOT-143
AOZ8001DI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	2	5.5 V	0.9 pF	1.0 pF	11.0 V	DFN 1.6x1.6
AOZ8802ADI	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	2	5.0 V	0.3 pF	0.6 pF	16.5 V	DFN 1.6x1.0
AOZ8881DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	2	5.0 V	0.3 pF	0.3 pF	20.0V	DFN 1.2x1.0
AOZ8882DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	2	5.0 V	0.3 pF	0.3 pF	12.0V	DFN 1.2x1.0
AOZ8000CI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	4	5.5 V	0.9 pF	1.0 pF	11.0 V	SOT-23
AOZ8000HI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	4	5.5 V	0.9 pF	1.0 pF	11.0 V	SC-70
AOZ8002DI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	4	5.5 V	0.9 pF	1.0 pF	12.0 V	DFN 1.6x1.6
AOZ8102DI	Ultra-Low Capacitance TVS Diode Array	± 20 kV	± 20 kV	4	5.5 V	0.9 pF	1.0 pF	12.0 V	DFN 1.6x1.6
AOZ8105CI	Ultra-Low Capacitance TVS Diode Array w/ Blocking Diode	± 24 kV	± 30 kV	4	5.5 V	0.43 pF	0.8 pF	16.0 V	SOT-23
AOZ8804ADI	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4	5.0 V	0.3 pF	0.6 pF	16.5 V	DFN 2.5x1.0
AOZ8808DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4	3.3 V	0.3 pF	0.6 pF	5.0 V	DFN 2.5x1.0
AOZ8808DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4	5.0 V	0.3 pF	0.6 pF	6.0 V	DFN 2.5x1.0
AOZ8809DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4	3.3 V	0.2 pF	0.45 pF	5.0 V	DFN 2.5x1.0
AOZ8809DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4	5.0 V	0.2 pF	0.45 pF	6.0 V	DFN 2.5x1.0
AOZ8818DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4	5.0 V	0.3 pF	0.3 pF	10.0 V	DFN 2.5x1.0
AOZ8904CIL	Ultra-Low Capacitance TVS Diode Array	± 24 kV	± 24 kV	4	5.5 V	0.9 pF	1.25 pF	14.0 V	SOT-23
AOZ8905CI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	4	5.0 V	0.35 pF	0.7 pF	22.0 V	SOT-23
AOZ8844DT-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 20 kV	4	5.0 V	0.25 pF	0.5 pF	6.5 V	DFN 1.3x0.8
AOZ8806DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	6	5.0 V	0.3 pF	0.6 pF	16.5 V	DFN 1.3x3.3
AOZ8807DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	6	3.3 V	0.2 pF	0.45 pF	10.0 V	DFN 1.3x3.3
AOZ8807DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	6	5.0 V	0.2 pF	0.45 pF	11.0 V	DFN 1.3x3.3
AOZ8312DI	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	12	2.5 V	1.2 pF	2.3 pF	5.0 V	DFN 3.5x2.5

Diode Arrays

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage	Channel Input Capacitance	Channnel Clamp Voltage	Package
		Contact	Air		V _{RWM} Max	I/O - GND Typ.	(I _{pp} = 15 A) V _{CL} Max.	
AOZ8131DI	Ultra-Low Capacitance Bidirectional Single Diode	± 24 kV	± 24 kV	1	5.0 V	1.25 pF	20.0 V	DFN1.0x0.6
AOZ8211DI-02	Low Capacitance Unidirectional Single Diode	± 30 kV	± 30 kV	1	2.5 V	11 pF	9.5 V	DFN1.0x0.6
AOZ8211DI-03	Low Capacitance Unidirectional Single Diode	± 30 kV	± 30 kV	1	3.3 V	11 pF	10.0 V	DFN1.0x0.6
AOZ8211DI-05	Low Capacitance Unidirectional Single Diode	± 28 kV	± 28 kV	1	5.0 V	16 pF	10.0 V	DFN1.0x0.6
AOZ8211DI-12	Low Capacitance Unidirectional Single Diode	± 28 kV	± 28 kV	1	12.0 V	30 pF	21.0 V	DFN1.0x0.6
AOZ8211DI-24	Low Capacitance Unidirectional Single Diode	± 18 kV	± 15 kV	1	24.0 V	20 pF	37.0 V	DFN1.0x0.6
AOZ8231ADI-02	Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV	1	2.5 V	5.5 pF	13.0 V	DFN1.0x0.6
AOZ8231ADI-03	Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV	1	3.3 V	5.5 pF	14.0 V	DFN1.0x0.6
AOZ8231ADI-05	Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV	1	5.0 V	13 pF	16.0 V	DFN1.0x0.6
AOZ8231ADI-08	Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV	1	8.0 V	23 pF	23.0 V	DFN1.0x0.6
AOZ8231ADI-12	Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV	1	12.0 V	13 pF	27.0 V	DFN1.0x0.6
AOZ8231ADI-24	Low Capacitance Bidirectional Single Diode	± 15 kV	± 18 kV	1	24.0 V	12 pF	39.0 V	DFN1.0x0.6
AOZ8251DI	1-Line Bidirectional TVS Diode	± 25 kV	± 30 kV	1	5.0 V	8 pF	19.5 V	DFN 0.6x0.3
AOZ8811DI	Ultra-Low Capacitance Single Diode	± 8 kV	± 15 kV	1	5.0 V	0.50 pF	23.0 V	DFN 1.0x0.6
AOZ8821DI-05	NEW Ultra-Low Capacitance Single Diode	± 15 kV	± 15 kV	1	5.0 V	0.65 pF	15.0 V	DFN1.0x0.6
AOZ8831DI-05	Ultra-Low Capacitance Bidirectional Single Diode	± 15 kV	± 15 kV	1	5.0 V	0.35 pF	23.0 V	DFN1.0x0.6
AOZ8831DT-03	NEW Ultra-Low Capacitance Bidirectional Single Diode	± 20 kV	± 20 kV	1	3.6 V	0.22 pF	15.0 V	DFN 1.0x0.6
AOZ8831DT-24	NEW Ultra-Low Capacitance Bidirectional Single Diode	± 15 kV	± 13 kV	1	24.0 V	0.35 pF	48.0 V	DFN 1.0x0.6
AOZ8841DI-05	NEW Ultra-Low Capacitance Bidirectional Single Diode	± 25 kV	± 15 kV	1	5.0 V	0.30 pF	19.5 V	DFN 1.0x0.6
AOZ8851DI-05	Ultra-Low Capacitance Bidirectional Single Diode	± 25 kV	± 30 kV	1	5.0 V	0.35 pF	19.5 V	DFN 0.6x0.3
AOZ8212CI-05	Low Capacitance Bidirectional Diode Arrays	± 30 kV	± 30 kV	2	5.0 V	3.5 pF	15.0 V	SOT-23
AOZ8222DI-05	2-Line TVS Diode	± 20 kV	± 20 kV	2	5.0 V	15 pF	10.0 V	DFN1.0x0.6
AOZ8204DI	Low Capacitance Diode Arrays	± 30 kV	± 30 kV	4	5.0 V	17 pF	7.0 V	DFN 1.6x1.6
AOZ8224CI-05	Low Capacitance Bidirectional Diode Arrays	± 30 kV	± 30 kV	4	5.0 V	13 pF	18.0 V	SOT-23
AOZ8234DI	Low Capacitance 4-Line Diode Array	± 18 kV	± 18 kV	4	5.0 V	13.5 pF	12.0 V	DFN1.45x1.0
AOZ8205DI	Low Capacitance Diode Arrays	± 30 kV	± 30 kV	5	5.0 V	17 pF	7.0 V	DFN 1.6x1.6
AOZ8235DI	Low Capacitance 5-Line Diode Array	± 18 kV	± 18 kV	5	5.0 V	13.5 pF	12.0 V	DFN1.45x1.0
AOZ8206DI	Low Capacitance Diode Arrays	± 20 kV	± 20 kV	6	5.0 V	17 pF	9.0 V	DFN 1.6x1.6
AOZ8208DI	Low Capacitance Diode Arrays	± 28 kV	± 28 kV	8	5.0 V	17 pF	9.0 V	DFN 1.8x1.2

EMI Filters

Part Number	Description	Filter Type	IEC 61000-4-2 (ESD)		Protected Lines	Reverse Working Voltage V _{RWM} Max	EMI Filter Performance		Channel Clamp Voltage (I _{pp} = 12A) V _{CL} Max.	Package
			Contact	Air			Cut-Off Freq Typ.	Insertion Loss Typ.		
AOZ8013	4-Line EMI Filter with Integrated ESD Protection	RC	± 18 kV	± 18 kV	4	5.0 V	90 MHz	-35 dB attenuation from 800 MHz to 2.2 GHz	9.5 V	DFN 2x2
AOZ8014	4-Line EMI Filter with Integrated ESD Protection	RC	± 17 kV	± 17 kV	4	5.0 V	125 MHz	-25 dB attenuation from 800 MHz to 3.0 GHz	8.5 V	DFN 2x2
AOZ8033	4-Line EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	4	5.0 V	90 MHz	-35 dB attenuation from 800 MHz to 3.0 GHz	10.0 V	DFN 1.8x1.2, 0.4mmPitch
AOZ8043	4-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	4	5.0 V	250 MHz	-20 dB attenuation from 1 GHz to 3.0 GHz	10.0 V	DFN 1.8x1.2, 0.4mmPitch
AOZ8073	4-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 15 kV	± 15 kV	4	5.0 V	220 MHz	-20 dB attenuation from 700 MHz to 3.0 GHz	14.0 V	DFN 1.8x1.2, 0.4mmPitch
AOZ8533	4-Line EMI Filter with Integrated ESD Protection	LC	± 20 kV	± 20 kV	4	5.0 V	450 MHz	-25 dB attenuation from 800 MHz to 5.0 GHz	12.0 V	DFN 1.8x1.2, 0.4mmPitch
AOZ8015	6-Line EMI Filter with Integrated ESD Protection	RC	± 17 kV	± 17 kV	6	5.0 V	100 MHz	-30 dB attenuation from 800 MHz to 3.0 GHz	11.0 V	DFN 3x1.35
AOZ8025	6-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	6	5.0 V	250 MHz	-20 dB attenuation from 1 GHz to 3.0 GHz	10.0 V	DFN 3x1.35
AOZ8035	6-Line EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	6	5.0 V	90 MHz	-30 dB attenuation from 800 MHz to 3.0 GHz	10.0 V	DFN 2.5x1.2, 0.4mmPitch
AOZ8045	6-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	6	5.0 V	250 MHz	-20 dB attenuation from 1 GHz to 3.0 GHz	10.0 V	DFN 2.5x1.2, 0.4mmPitch
AOZ8075	6-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 15 kV	± 15 kV	6	5.0 V	220 MHz	-20 dB attenuation from 700 MHz to 3.0 GHz	14.0 V	DFN 2.5x1.2, 0.4mmPitch
AOZ8175	6-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 15 kV	± 15 kV	6	5.0 V	220 MHz	-20 dB attenuation from 700 MHz to 3.0 GHz	14.0 V	DFN 3x1.35
AOZ8535	6-Line EMI Filter with Integrated ESD Protection	LC	± 20 kV	± 20 kV	6	5.0 V	450 MHz	-25 dB attenuation from 800MHz to 5.0 GHz	12.0 V	DFN 2.5x1.2, 0.4mmPitch
AOZ8010	8-Line EMI Filter with Integrated ESD Protection	RC	± 18 kV	± 18 kV	8	5.0 V	90 MHz	-35 dB attenuation from 800 MHz to 2.2 GHz	9.5 V	DFN 4x1.6
AOZ8011	8-Line EMI Filter with Integrated ESD Protection	RC	± 17 kV	± 17 kV	8	5.0 V	125 MHz	-25dB attenuation from 800 MHz to 3.0 GHz	8.5 V	DFN 4x1.6
AOZ8020	8-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	8	5.0 V	250 MHz	-20 dB attenuation from 1 GHz to 3.0 GHz	10.0 V	DFN 4x1.6
AOZ8030	8-Line EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	8	5.0 V	90 MHz	-35 dB attenuation from 800 MHz to 3.0 GHz	10.0 V	DFN 3.5x1.2, 0.4mm Pitch
AOZ8040	8-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 20 kV	± 20 kV	8	5.0 V	250 MHz	-20 dB attenuation from 1 GHz to 3.0 GHz	10.0 V	DFN 3.5x1.2, 0.4mm Pitch
AOZ8070	8-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 15 kV	± 15 kV	8	5.0 V	220 MHz	-20 dB attenuation from 700 MHz to 3.0 GHz	14.0 V	DFN 3.5x1.2, 0.4mm Pitch
AOZ8170	8-Line Low Cap EMI Filter with Integrated ESD Protection	RC	± 15 kV	± 15 kV	8	5.0 V	220 MHz	-20 dB attenuation from 700 MHz to 3.0 GHz	14.0 V	DFN 4x1.6
AOZ8510	8-Line EMI Filter with Integrated ESD Protection	LC	± 18 kV	± 24 kV	8	5.0 V	155 MHz	-40 dB attenuation from 800 MHz to 3.0 GHz	12.0 V	DFN 4x1.6
AOZ8530	8-Line EMI Filter with Integrated ESD Protection	LC	± 24 kV	± 30 kV	8	5.0 V	450 MHz	-25 dB attenuation from 800 MHz to 5.0 GHz	12.0 V	DFN 3.5x1.2, 0.4mm Pitch

MOSFETS AND IGBTs

AOS pioneered the fab lite model in the Trench Power MOSFET field, developing leading-edge products that are exclusively headquarters and are then produced with its very efficient manufacturing model. Our product portfolio covers 6V to 1000V

manufactured in state-of-the-art 8-inch fabs. Advanced proprietary silicon and packaging processes are designed in AOS's U.S. MOSFETs and currently 600V and 1350V IGBTs, with other voltages soon to come.

Low Voltage MOSFETs

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)		
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V								1.2V	
WLCSP 1.57x1.57 / 1.6x1.6																											
AOC2411	WLCSP 1.6x1.6	Single	Load Switch	P	No	No		-30	12	-3.4		0.8			45*	60*				-1.4	1253	105	12.5*	3.2*	14	150	
AOC2800	WLCSP 1.57x1.57	Common Drain	Load Switch	N	No	No		30	12	6		1.3			21*	30.5*				1.5	984	57	9.1		320	3800	
AOC2802	WLCSP 1.57x1.57	Common Drain	Load Switch	N	No	No		20	12	6		1.3			17*	27*				1.5	984	57	9.1		320	3800	
AlphaDFN 0.97x0.97																											
AOC2422	MCSP 0.97x0.97	Single	General Purpose	N	Yes	No		6	5	3.5		0.6				33	38	43	58	0.8	870	155	9.5	2	1000	3000	
AOC2421	MCSP 0.97x0.97	Single	Load Switch	P	Yes	No		-8	5	-2.5		0.6				60	72	85	115	-0.7	750	104	7.5	1	285	1870	
AOC2403	MCSP 0.97x0.97	Single	Load Switch	P	No	No		-20	8	-1.8		0.45			95*	115*	150*	200*		-1	405	45	4.8*	1*	7.5	95	
AOC2423	MCSP 0.97x0.97	Single	Load Switch	P	Yes	No		-20	12	-2		0.6		80	95	120				1.2	470	60	5	0.5	7.5	50	
AlphaDFN 1.57x1.57																											
AOC2412	MCSP 1.57x1.57	Single	General Purpose	N	Yes	No		20	8	4.5		0.55			23	26	30			1	1842	70	21.5	4.5	2500	5000	
AOC2414	MCSP 1.57x1.57	Single	General Purpose	N	Yes	No		8	5	4.5		0.55				19	21	24	29	0.8	2042	298	21.5	4.5	2500	5000	
AOC2413	MCSP 1.57x1.57	Single	Load Switch	P	No	No		-8	5	-3.5		0.55				28	32	37	47	-0.65	1935	240	19	3.5	1600	2700	
AOC2415	MCSP 1.57x1.57	Single	Load Switch	P	Yes	No		-20	8	-3.5		0.55			33	38	45	54		-1	1685	150	19	5.5	650	4000	
AOC2417	MCSP 1.57x1.57	Single	Load Switch	P	Yes	No		-20	12	-3.5		0.55		32	38	50				-1.4	1355	150	14	4	7	190	
AOC2401	MCSP 1.57x1.57	Single	Load Switch	P	Yes	No		-30	12	-3		0.55		41	47	58				-1.3	1327	102	13.5	4	7	190	
AlphaDFN 3.2x2.0																											
AOC4810	MCSP 3.2x2.0	Common Drain	Load Switch	N	No	No		30	20	8		0.9		4.4*	7.25*					1.8	1130	90	20		8	25	
SC-70																											
AO7400	SC-70-3	Single	General Purpose	N	No	No		30	12	1.7	1.3	0.35	0.22	55	65	85				1.5	235	18	4.7	1.6	3.5	17.5	
AO7410	SC-70-3	Single	General Purpose	N	No	No		30	12	1.7	1.3	0.35	0.22	55	65	85				1.5	235	18	4.7	1.6	3.5	17.5	
AO7412	SC-70-6	Single	General Purpose	N	No	No		30	12	1.7	1.3	0.35	0.22	55	65	85				1.5	235	18	4.7	1.6	3.5	17.5	
AO7404	SC-70-3	Single	General Purpose	N	Yes	No		20	8	1	0.75	0.35	0.22		225	290	425			0.8	101	14	1.57	0.36	3.2	15.5	
AO7408	SC-70-6	Single	General Purpose	N	No	No		20	8	2	1.5	0.35	0.22		62	75	85			1	260	27	2.9*	0.6	2.5	21	
AO7414	SC-70-6	Single	General Purpose	N	No	No		20	8	2	1.5	0.35	0.22		62	70	85			1	260	27	2.9	0.6	2.5	21	
AO7403	SC-70-3	Single	General Purpose	P	Yes	No		-20	8	-0.7	-0.5	0.35	0.22		470	625	900			-0.9	114	14	1.44	0.35	6.5	18.2	
AO7407	SC-70-3	Single	General Purpose	P	No	No		-20	8	-1.2	-1	0.63	0.4		135	170	220			-1	560	70	8.5*	2.1	7.2	53	
AO7411	SC-70-6	Single	General Purpose	P	No	No		-20	8	-1.8	-1.5	0.63	0.4		120	150	200			-1	560	70	8.5	2.1	7.2	53	
AO7413	SC-70-3	Single	General Purpose	P	Yes	No		-20	12	-1.4	-1.2	0.35	0.22	113	135	180				-1.2	325	37	3.2	0.9	11	22	
AO7415	SC-70-6	Single	General Purpose	P	Yes	No		-20	12	-2	-1.6	0.63	0.4	100	125	170				-1.2	325	37	3.2	0.9	11	22	
AO7417	SC-70-6	Single	General Purpose	P	No	No		-20	8	-1.9	-1.6	0.57	0.36		80	100	125			-1	560	70	8.5	2.1	7.2	53	
AO7401	SC-70-3	Single	General Purpose	P	No	No		-30	12	-1.4	-1	0.35	0.22	115	140	200				-1.4	260	20	2.8	1	6	20	
AO7405	SC-70-6	Single	General Purpose	P	No	No		-30	12	-1.4	-1	0.35	0.22	115	140	200				-1.4	260	20	2.8	1	6	20	
AO7800	SC-70-6	Dual	General Purpose	N	Yes	No		20	8	0.9	0.7	0.3	0.19		300	350	450			0.9	101	14	1.57	0.36	3.2	15.5	
AO7801	SC-70-6	Dual	General Purpose	P	No	No		-20	8	-0.6	-0.48	0.3	0.19		520	700	950			-0.9	114	14	1.44	0.35	6.5	18.2	
AO7600	SC-70-6	Complementary	Inverter	N	No	No		20	8	0.9	0.7	0.3	0.19		300	350	450			0.9	101	14	1.57	0.36	3.2	15.5	
AO7600	SC-70-6	Complementary	Inverter	P	No	No		-20	8	-0.6	-0.48	0.3	0.19		550	700	950			-0.9	114	14	1.44	0.35	6.5	18.2	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g ⁺ (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V								1.2V
SC-89																										
AO5404E	SC-89-3	Single	Load Switch	N	Yes	No		20	8	0.5	0.5	0.38	0.24		550	680	800		1	35	6			4.5	78	
AO5401E	SC-89-3	Single	Load Switch	P	Yes	No		-20	8	-0.5	-0.45	0.38	0.24		800	1000	1300		-0.9	72	9			60.5	612	
AO5804E	SC-89-6	Dual	Load Switch	N	Yes	No		20	8	0.5	0.5	0.38	0.24		550	680	800		1	35	6	0.63	0.16	4.5	78	
AO5803E	SC-89-6	Dual	Load Switch	P	Yes	No		-20	8	-0.6	-0.4	0.4	0.24		800	1000	1250		-0.9	72	9			60.5	612	
AO5600E	SC-89-6	Complementary	Inverter	N	Yes	No		20	8	0.6	0.4	0.38	0.24		650	750	950		1	35	6			4.5	70	
AO5600E	SC-89-6	Complementary	Inverter	P	Yes	No		-20	8	-0.5	-0.4	0.38	0.24		800	1000	1300		-1	72	9			60.5	612	
SOT-23																										
AO3400	SOT-23-3	Single	General Purpose	N	No	No		30	12	5.8	4.9	1.4	1	28	33	52			1.45	630	50	6	1.8	3	25	
AO3400A	SOT-23-3	Single	General Purpose	N	No	No		30	12	5.7	4.7	1.4	0.9	26.5	32	48			1.45	630	50	6	1.8	3	25	
AO3402	SOT-23-3	Single	General Purpose	N	No	No		30	12	4	3.2	1.4	0.9	52	65	85			1.5	235	18	4.7	1.6	3.5	17.5	
AO3404	SOT-23-3	Single	General Purpose	N	No	No		30	20	5	4	1.4	0.9	31	43				2.4	255	35	2.55	1.3	4.5	14.5	
AO3404A	SOT-23-3	Single	General Purpose	N	No	No		30	20	5.8	4.9	1.4	0.9	25	35				2.6	373	41	3.3	1.7	4.5	14.8	
AO3406	SOT-23-3	Single	General Purpose	N	No	No		30	20	3.6	2.9	1.4	0.9	50	70				2.5	170	23	2	1	4.5	18.5	
AO3418	SOT-23-3	Single	SMPS	N	No	No		30	12	3.8	3.1	1.4	0.9	55	65	85			1.5	235	18	4.7	1.6	3.5	17.5	
AO3424	SOT-23-3	Single	General Purpose	N	No	No		30	12	3.8	3.1	1.4	0.9	55	65	85			1.5	235	18	4.7	1.6	3.5	17.5	
AO3434A	SOT-23-3	Single	Battery Protection	N	Yes	No		30	12	4	3	1.4	0.9	52	60	78			1.5	245	20	2.6	1	2	22	
AO3414	SOT-23-3	Single	General Purpose	N	No	No		20	8	3	2.5	1.4	0.9		62	70	85		1	260	27	2.9	0.6	2.5	21	
AO3416	SOT-23-3	Single	Load Switch	N	Yes	No		20	8	6.5	5.2	1.4	0.9		22	26	34		1.1	1295	87	10	2.6	280	3760	
AO3420	SOT-23-3	Single	Load Switch	N	No	No		20	12	6	5	1.4	0.9	24	27	42	55		1.1	525	75	6	2	3	20	
AO3413	SOT-23-3	Single	General Purpose	P	No	No		-20	8	-3	-2.4	1.4	0.9		80	100	130		-1	560	70	8.5	2.1	7.2	53	
AO3415	SOT-23-3	Single	General Purpose	P	Yes	No		-20	8	-4	-3.5	1.5	1		41	53	65		-0.9	751	80	9.3	2.2	13	19	
AO3415A	SOT-23-3	Single	General Purpose	P	Yes	No		-20	8	-5	-4	1.5	1		41	53	65		-0.9	751	80	9.3	2.2	13	19	
AO3419	SOT-23-3	Single	General Purpose	P	Yes	No		-20	12	-3.5	-2.8	1.4	0.9	85	102	140			-1.2	325	37	3.1	1.1	11	22	
AO3423	SOT-23-3	Single	General Purpose	P	Yes	No		-20	12	-2	-2	1.4	0.9	92	118	166			-1.2	325	37	3.2	0.9	11	22	
AO3435	SOT-23-3	Single	SMPS	P	No	No		-20	8	-2.9	-2.3	1	0.6		70	90	110	130		-1	510	52	5.6	1.8	11	60
AO3401	SOT-23-3	Single	General Purpose	P	No	No		-30	12	-4	-3.2	1.4	0.9	50	60	85			-1.3	645	55	7	2.5	6.5	41	
AO3401A	SOT-23-3	Single	General Purpose	P	No	No		-30	12	-4	-3.2	1.4	0.9	50	60	85			-1.3	645	55	7	2.5	6.5	41	
AO3403	SOT-23-3	Single	General Purpose	P	No	No		-30	12	-2.6	-2.2	1.4	0.9	115	150	200			-1.4	260	20	2.8	1	6	20	
AO3407	SOT-23-3	Single	General Purpose	P	No	No		-30	20	-4.1	-3.5	1.4	0.9	52	87				2.4	520	65	4.6	2.2	7.5	19	
AO3407A	SOT-23-3	Single	General Purpose	P	No	No		-30	20	-4.3	-3.5	1.4	0.9	48	78				-2.4	520	65	4.6	2.2	7.5	19	
AO3409	SOT-23-3	Single	General Purpose	P	No	No		-30	20	-2.6	-2.2	1.4	1	110	180				-2.4	197	26	2.2	1.1	7.5	11.8	
AO3421	SOT-23-3	Single	General Purpose	P	No	No		-30	20	-2.6	-2.2	1.4	1	110	180				-2.4	197	26	2.2	1.1	7.5	11.8	
AO3421E	SOT-23-3	Single	General Purpose	P	Yes	No		-30	20	-3	-2	1.4	0.9	95	160				-2.5	215	27.5	2.2	1.2	8	13.5	
TSOP-6																										
AO6400	TSOP-6	Single	General Purpose	N	No	No		30	12	6.9	5.8	2	1.3	28	33	52			1.45	630	50	6	1.8	3	25	
AO6402	TSOP-6	Single	General Purpose	N	No	No		30	20	5	4	1.25	0.8	31	43				2.4	255	35	2.55	1.3	4.5	14.5	
AO6402A	TSOP-6	Single	General Purpose	N	No	No		30	20	7.5	6	2	1.28	24	35				2.6	373	41	3.5	1.7	4.5	14.9	
AO6424	TSOP-6	Single	General Purpose	N	No	No		30	20	5	4	1.25	0.8	31	43				2.4	255	35	2.55	1.3	4.5	14.5	
AO6424A	TSOP-6	Single	General Purpose	N	No	No		30	20	6.5	5	2.5	1.5	35	48				2.4	270	35	3.2	1.75	3	17.5	
AO6432	TSOP-6	Single	General Purpose	N	No	No		30	20	7.5	6	2	1.28	24	35				2.6	373	41	3.5	1.7	4.5	14.9	
AO6404	TSOP-6	Single	Load Switch	N	No	No		20	12	8.6	6.8	2	1.28	17	18	24	33		1	1810	200	17.9	4.7	2.5	49	
AO6408	TSOP-6	Single	General Purpose	N	Yes	No		20	12	8.8	7	2	1.28	18	20	25	32		1	1810	200	17.9	4.7	3.3	44	
AO6409	TSOP-6	Single	Load Switch	P	Yes	No		-20	8	-5.5	-4.2	2.1	1.3		41	53	65		-0.9	751	80	9.3	2.2	13	19	
AO6409A	TSOP-6	Single	Load Switch	P	Yes	No		-20	8	-5.5	-4	2.1	1.3		41	53	65		-0.9	751	80	9.3	2.2	13	19	
AO6415	TSOP-6	Single	Load Switch	P	Yes	No		-20	12	-3.3	-2.7	1.25	0.8	82	100	140			-1.2	325	37	3.2	0.9	11	22	
AO6401	TSOP-6	Single	General Purpose	P	No	No		-30	12	-5	-4	2	1.3	47	64	85			-1.3	645	55	7	2.5	6.5	41	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g ⁺ (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AO6401A	TSOP-6	Single	General Purpose	P	No	No		-30	12	-5	-4	2	1.3	47	64	85				-1.3	645	55	7	2.5	6.5	41	
AO6403	TSOP-6	Single	General Purpose	P	No	No		-30	20	-6	-5	2	1.3	35	58					-2.4	760	95	6.7	3.2	8	17	
AO6405	TSOP-6	Single	General Purpose	P	No	No		-30	20	-5	-4.2	2	1.3	52	87					-2.4	520	65	4.6	2.2	7.5	19	
AO6800	TSOP-6	Dual	General Purpose	N	No	No		30	12	3.4	2.7	1.15	0.73	60	70	90				1.5	235	18	4.7	1.6	3.5	17.5	
AO6802	TSOP-6	Dual	General Purpose	N	No	No		30	20	3.5	3	1.15	0.73	50	70					2.5	170	23	2	1	4.5	18.5	
AO6804A	TSOP-6	Dual	Load Switch	N	Yes	No		20	12	5	4	1.3	0.8		28	39				1	580	70	5.8	1.6	2.4	38	
AO6801	TSOP-6	Dual	General Purpose	P	No	No		-30	12	-2.3	-2	1.15	0.73	115	150	200				-1.4	260	20	2.8	1	6	20	
AO6801A	TSOP-6	Dual	General Purpose	P	No	No		-30	12	-2.3	-2	1.15	0.73	115	150	200				-1.4	260	20	2.8	1	6	20	
AO6801E	TSOP-6	Dual	General Purpose	P	Yes	No		-30	12	-2	-1.6	0.7	0.5	110	135	185				-1.5	305	26	3.5	1.2	6	23	
AO6808	TSOP-6	Common Drain	Load Switch	N	Yes	No		20	12	4.6	3.7	0.8	0.5		23	30				1	620	64	7.7	2.7	236	9.5	
AO6601	TSOP-6	Complementary	Inverter	N	No	No		30	12	3.4	2.7	1.15	0.73	60	70	90				1.5	235	18	4.7	1.6	3.5	17.5	
AO6601	TSOP-6	Complementary	Inverter	P	No	No		-30	12	-2.3	-1.8	1.15	0.73	115	150	200				-1.4	260	20	2.8	1	6	20	
AO6602	TSOP-6	Complementary	Inverter	N	No	No		30	20	3.5	3	1.15	0.73	50	70	115				2.5	170	23	2	1	4.5	18.5	
AO6602	TSOP-6	Complementary	Inverter	P	No	No		-30	20	-2.7	-2.1	1.15	0.73	100	170					-2.4	197	26	2.2	1.1	7.5	11.8	
AO6604	TSOP-6	Complementary	Inverter	N	No	No		20	8	3.4	2.5	1.1	0.7		65	75	100			1	260	27	2.9	0.6	2.5	21	
AO6604	TSOP-6	Complementary	Inverter	P	No	No		-20	8	-2.5	-2	1.1	0.7		75	95	115			-1	560	70	8.5	2.1	7.2	53	
TSSOP-8																											
AO8808A	TSSOP-8	Dual	Battery Protection	N	Yes	No		20	12	8	6.3	1.4	1	14	15	20	28			1	1160	146	16	3.8	6.2	51.7	
AO8807	TSSOP-8	Dual	Load Switch	P	Yes	No		-12	8	-6.5	-5	1.4	0.9		20	24	30			-0.85	1740	200	19	5.3	240	7000	
AO8801	TSSOP-8	Dual	Load Switch	P	Yes	No		-20	8	-4.7	-3.7	1.4	0.9		42	53	70			-1	1450	160	17.2	4.5	9.5	94	
AO8801A	TSSOP-8	Dual	Load Switch	P	Yes	No		-20	8	-4.5	-3.6	1.5	0.96		42	54	68			-0.9	751	80	9.3	22	13	19	
AO8804	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12	8	6.3	1.5	1.08	13	14	19	27			1	1810	200	19.8	5	3.3	44	
AO8810	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	8	7	5.7	1.5	1		20	23	28			1.1	1295	97	10	2.6	250	3670	
AO8814	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12	7.5	6	1.5	0.96	16	18	24	34			1	1390	150	15.4	4	6.2	40.5	
AO8820	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12	7	5.5	1.5	0.96	21	24	32	50			1.1	500	52	6	1	0.2	7.4	
AO8822	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12	7	5.7	1.5	0.96	18	22	27				1	650	60	6.7	3	250	11000	
AO8830	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12	6	4.8	1.5	0.94	27	30	41	55			1	290	40	5.2	1.9	280	2350	
DFN 1.0x0.6																											
AON1606	DFN 1.6x0.6A	Single	Load Switch	N	Yes	No		20	8	0.7	0.55	0.9	0.55		275	335	390			1	62.5	9	0.85	0.25	2	18	
AON1605	DFN 1.6x0.6A	Single	Load Switch	P	Yes	No		-20	8	-0.7	-0.55	0.9	0.55		710	930	1250			-1.1	50	7.5	0.75	0.2	6	22	
DFN 1.6x1.6																											
AON1634	DFN 1.6x1.6A	Single	Load Switch	N	Yes	No		30	12	4	3	1.8	1.15	54	62	82				1.5	245	20	2.6	1	2	22	
AON1610	DFN 1.6x1.6A	Single	Load Switch	N	Yes	No		20	8	4	3	1.8	1.15		29	34	44			1.1	748	67	7.5	1.8	4.5	27	
AON1620	DFN 1.6x1.6A	Single	Load Switch	N	Yes	No		12	8	4	3	1.8	1.15		22	27	36			1	770	130	8	2	2.5	25	
AON1611	DFN 1.6x1.6A	Single	Load Switch	P	Yes	No		-20	8	-4	-3	1.8	1.15		58	76	98	120		-0.9	550	64	7	1.9	15	50	
DFN 2x2																											
AON2410	DFN 2x2B	Single	Load Switch	N	No	No		30	12	8	6	2.8	1.8		21	28				1.5	813	56	8	2.6	3	26	
AON2420	DFN 2x2B	Single	General Purpose	N	No	No		30	20	8	6	2.8	1.8	11.7	17.5					2.2	552	28	4.3	1.7	4.8	18.5	
AON2406	DFN 2x2B	Single	Load Switch	N	No	No		20	8	8	6	2.8	1.8		12.5	15	19	24		1	1140	110	12.5	2.7	2.7	37	
AON2408	DFN 2x2B	Single	Load Switch	N	No	No		20	12	8	6	2.8	1.8		14.5	19				1.2	782	98	7	2.4	3	28	
AON2400	DFN 2x2B	Single	Load Switch	N	No	No		8	5	8	6	2.8	1.8			11	13	16	23	0.46	1645	320	16	2.8	7	37	
AON2401	DFN 2x2B	Single	Load Switch	P	No	No		-8	5	-8	-6	2.8	1.8			22	28	36	53	-0.65	1465	235	12.5	3	4	99	
AON2403	DFN 2x2B	Single	Load Switch	P	No	No		-12	8	-8	-6	2.8	1.8		21	28	40	54		-0.9	1370	258	12.7	3.4	11	70	
AON2411	NEW	DFN 2x2C	Single	Load Switch	P	Yes	No	-20	8	-20	-15.5	5	3.2		8	11.6	17.5		-0.9	2180	425	20	5.5	15	135		
AON2405	DFN 2x2B	Single	Load Switch	P	No	No		-20	8	-8	-6	2.8	1.8		32	41	56	70		-0.9	1025	119	13	3.4	7	95	
AON2701	DFN 2x2	Single	Load Switch	P	No	Yes	2 A	-20	8	-3	-2.2	1.1	0.73		120	160	200			-1	540	63	5	1	5	28.5	
AON2407	DFN 2x2B	Single	Load Switch	P	No	No		-30	12	-6.3	-5	2.8	1.8	37.5	46	70				-1.5	746	70	8	2.8	5.8	62	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AON2409	DFN 2x2B	Single	Load Switch	P	No	No		-30	20	-8	-6.3	2.8	1.8	32	53					-2.3	530	75	6	3	7.7	26.3	
AON2705	DFN 2x2	Single	General Purpose	P	No	Yes	2 A	-30	20	-3	-2.4	1.5	0.95	108	165					-2.3	180	25	2	1	8	18	
AON2707	DFN 2x2	Single	General Purpose	P	No	Yes	2 A	-30	12	-4	-3	2.8	1.8	117	138	193				-1.5	305	26	3.2	1.2	6	21	
AON2802	DFN 2x2	Dual	Battery Protection	N	Yes	No		30	12	2	1.6	2.1	1.3	60	68	88				1.5	245	20	2.6	1	2	22	
AON2810	DFN 2x2	Dual	General Purpose	N	Yes	No		30	12	2	1.6	2.5	1.6	44	52	74				1.4	235	15	2.2	0.7	3	24	
AON2812	NEW	DFN 2x2	Dual	General Purpose	N	Yes	No	30	12	4.5	3.5	2.5	1.6	37	45	70				1.4	235	15	2.2	0.7	3	24	
AON2800	DFN 2x2	Dual	Battery Protection	N	Yes	No		20	8	4	3	1.5	0.95		47	65				1.2	360	50	4.15	1.15	9.5	26	
AON2809	DFN 2x2	Dual	Load Switch	P	Yes	No		-12	8	-2	-1.6	2.1	1.3		68	90	118			-0.9	415	78	4.4	0.9	11.8	54.3	
AON2801	DFN 2x2	Dual	Load Switch	P	No	No		-20	8	-3	-2	1.1	0.73		120	160	200			-1	540	63	5	1	5	28.5	
AON2803	DFN 2x2	Dual	Load Switch	P	No	No		-20	8	-3.8	-3	1.5	0.95		70	90	115			-1	560	70	8.5	2.1	7.2	53	
DFN 2x5																											
AON5802B	DFN 2x5	Common Drain	Battery Protection	N	Yes	No		30	12	7.2	5.6	1.6	1		18	30				1.5	790	52	7.5	2.5	320	4350	
AON5810	DFN 2x5	Common Drain	Battery Protection	N	Yes	No		20	12	7.7	6.1	1.6	1		18	25	40			1	1360	178	13.1	3.9	6.2	40.5	
AON5820	DFN 2x5	Common Drain	Battery Protection	N	Yes	No		20	12	10	8	1.7	1		9.5	13				1	1255	168	12.5	6.5	1.1	7	
DFN 3x2																											
AON4420L	DFN 3x2	Single	Load Switch	N	No	No		30	20	10	8	1.6	1	20	26					2.5	550	55	4.6	2.2	5	24	
AON4407	DFN 3x2	Single	Load Switch	P	Yes	No		-12	8	-9	-7	2.5	1.6		20	25	31			-0.85	1740	200	19	5.3	240	7000	
AON4703	DFN 3x2	Single	Load Switch	P	No	Yes	1 A	-20	8	-3.4	-2.7	1.7	1.1		90	120	160			-1	540	49	6.1	1.6	10	44	
AON4421	DFN 3x2	Single	Load Switch	P	No	No		-30	20	-8	-6	2.5	1.6	26	34					-1.8	930	120	8.6	3.4	6	40	
AON4803	DFN 3x2	Dual	Load Switch	P	No	No		-20	8	-3.4	-2.7	1.7	1.1		90	120	165			-1	540	49	6.1	1.6	10	44	
AON4805L	DFN 3x2	Dual	Load Switch	P	No	No		-20	8	-4.5	-3.5	2	1.3		65	85	115			-1	560	70	8.5	2.1	7.2	53	
AON4807	DFN 3x2	Dual	Load Switch	P	No	No		-30	20	-4	-3	1.9	1.2	68	105					-2.3	290	40	2.8	1.3	6	21	
AON4605	DFN 3x2	Complementary	Inverter	N	No	No		30	20	4.3	3.4	1.9	1.2	50	70					3	238	30	3.1	1.6	3.3	13.2	
AON4605	DFN 3x2	Complementary	Inverter	P	No	No		-30	20	-3.4	-2.7	1.9	1.2	110	180					-3	290	44	3	1.6	7	15	
DFN 3x3																											
AON3406 ⁽¹⁾	DFN 3x3	Single	General Purpose	N	Yes	No		30	20	10	7.8	3	1.9	15	24					3	955	112	9	4.7	5	19	
AON7200	DFN 3x3	Single	SMPS	N	No	No		30	20	40	31	26	10.4	8	11					2.4	1090	38	7	2.5	5	16	
AON7400	DFN 3x3	Single	SMPS	N	No	No		30	12	26	20	35	14	12.5	14.5					1.55	1210	85	10	2.7	10	21	
AON7400A	DFN 3x3	Single	SMPS	N	No	No		30	20	40	28	25	10	7.5	10.5					2.5	1150	105	9.5	5	6.5	17	
AON7402	DFN 3x3	Single	SMPS High Side	N	No	No		30	20	39	24	26	10.4	10	15					2.2	770	77	7.1	3.1	5	18	
AON7406	DFN 3x3	Single	SMPS	N	No	No		30	20	25	15	15.5	6	17	23					2.4	740	82	7.5	3	5	19	
AON7408	DFN 3x3	Single	SMPS High Side	N	No	No		30	20	18	11.5	11	4.5	20	32					2.6	373	41	7.1	1.6	4.3	15.8	
AON7410	DFN 3x3	Single	Load Switch	N	No	No		30	20	24	15	20	8.3	20	26					2.5	550	55	4.6	2.2	5	24	
AON7412	DFN 3x3	Single	Load Switch	N	No	No		30	25	16	12.5	20.8	8.3	20	28					2	466	61	4.3	2.3	5	20	
AON7414	DFN 3x3	Single	Load Switch	N	No	No		30	20	20	15	15.5	6	15	20					2.2	595	70	6.8	3.6	5	22	
AON7416	DFN 3x3	Single	Load Switch	N	No	No		30	12	40	26	25	10	8.5	10					1.7	1580	100	13	3	5	29	
AON7422E	DFN 3x3	Single	Load Switch	N	Yes	No		30	20	40	31	36	14	4.3	6					1.85	2445	220	19	6.6	7	41.5	
AON7426	DFN 3x3	Single	Load Switch	N	Yes	No		30	20	40	31	29	12	5.5	8					2.35	1756	155	44	13	17.5	56	
AON7430	DFN 3x3	Single	General Purpose	N	No	No		30	20	34	21	23	9	12	16					2.5	760	70	6.6	3	4.4	17	
AON7432	DFN 3x3	Single	Load Switch	N	No	No		30	12	18	14	20.8	8.3	15	18	24				1.5	813	56	8	2.6	3	26	
AON7466	NEW	DFN 3x3	Single	General Purpose	N	No	No	30	25	30	23	25	10	7.5	10.5				2.5	1150	105	9.5	5	6.5	17		
AON7502	DFN 3x3	Single	General Purpose	N	No	No		30	25	30	23.5	31	12.5	4.7						3	1022	63	6.2	3.5	7.5	17.5	
AON7506	DFN 3x3	Single	General Purpose	N	No	No		30	20	12	9.4	20.5	8	9.8	15.8					2.3	542	31	4.3	1.7	4	18	
AON7508	DFN 3x3	Single	General Purpose	N	No	No		30	20	32	25	62.5	25	3	4.6					2.2	1835	90	13.6	5.3	7.9	27.3	
AON7516	DFN 3x3	Single	Load Switch	N	No	No		30	20	30	23	25	10	4.5	6.8					2.2	1229	83	12	5.5	7	24	
AON7522E	DFN 3x3	Single	General Purpose	N	No	No		30	20	34	27	31	12	4	6.8					2.2	1540	448	19.7	15	7	24	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)		
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V								1.2V	
AON7524	DFN 3x3	Single	General Purpose	N	Yes	No		30	12	28	22	32	12.8	3.3	4	5.8				1.2	2250	65	16	5.2	5	47.5	
AON7528	DFN 3x3	Single	General Purpose	N	Yes	No		30	20	50	39	83	33	2	3.4				2.2	2895	149	21.3	9	8.5	31		
AON7530	NEW	DFN 3x3	Single	General Purpose	N	No	No	30	20	30	23	24	9.6	4.7	7.2				2.2	1320	70	8.8	4	7	21		
AON7532E	DFN 3x3	Single	General Purpose	N	Yes	No		30	20	28	21	28	11	3.5	5.5				2.2	1950	95	12.8	4.8	8	28		
AON7534	DFN 3x3	Single	General Purpose	N	No	No		30	20	30	23	23	9	5	8.5				2.2	1037	61	6.8	3.6	5.5	18		
AON7538	DFN 3x3	Single	General Purpose	N	No	No		30	20	30	23	24	9	5.1	8.2				2.2	1128	59	7.4	2.3	5.5	22.5		
AON7556	NEW	DFN 3x3	Single	General Purpose	N	No	No	30	20	12	9.4	12.5	5	10.5	16.5				2.2	600	30	4.4	1.9	5	17.5		
AON7752	DFN 3x3	Single	General Purpose	N	No	Yes		30	20	16	12	20	8.3	8.2	14.5				2.5	605	36.5	5.5	2.6	5	17		
AON7754	DFN 3x3	Single	General Purpose	N	No	Yes	SRFET	30	20	32	25	70	28	3.6	5				2.4	1975	92	13.6	5.3	7.9	27.3		
AON7764	DFN 3x3	Single	SMPS Low Side	N	No	Yes	SRFET	30	20	32	25	30	12	3.2	4.8				2.2	1990	120	13.2	6.6	9.5	28.5		
AON3402	DFN 3x3	Single	General Purpose	N	Yes	No		20	12	12	9.6	3	1.9	13	17	26			1	1810	200	17.9	4.7	2.5	4.9		
AON7404	DFN 3x3	Single	Load Switch	N	No	No		20	12	40	31	40	16		6	7.5			1.6	3860	580	36	12	7	70		
AON7436	DFN 3x3	Single	Load Switch	N	No	No		20	12	23	15	16.7	7	19	22	32	50		1.1	525	75	6	2	3	20		
AON7407	DFN 3x3	Single	Load Switch	P	No	No		-20	8	-40	-29	29	12		9.5	12.5	18		-0.9	3495	425	44*	11	18	136		
AON3419	DFN 3x3	Single	Load Switch	P	No	No		-30	20	-10	-7.8	3.1	2	19	32				-2.5	1040	125	9.6	4.5	10	26		
AON7401	DFN 3x3	Single	Load Switch	P	No	No		-30	25	-35	-23	29	12	14					-3	2060	295	30*	10	11	24		
AON7403	DFN 3x3	Single	Load Switch	P	No	No		-30	25	-29	-18	25	10	18	36				-3	1130	155	18*	3.3	8.7	18		
AON7409	DFN 3x3	Single	Load Switch	P	Yes	No		-30	25	-32	-25	96	38.5	8.5	17				-2.7	2142	363	18.5	6	13	34		
AON7804	DFN 3x3	Dual	SMPS	N	Yes	No		30	20	22	14	17	7	21	26				2.4	740	82	7.5	3	5	19		
AON7810	DFN 3x3	Dual	General Purpose	N	No	No		30	20	6	5	20.5	8	14	20.5				2.3	542	31	4.3	2	4	18		
AON7812	NEW	DFN 3x3	Dual	General Purpose	N	No	No	30	20	6	4.5	12.6	5	14.5	20.5				2.2	600	30	4.4	1.9	5	17.5		
AON7820	DFN 3x3	Dual	SMPS	N	Yes	No		20	10	35	22	31	12.5		16	20			1	1720	177	18.2	7.6	1.65	5.4		
AON7826	DFN 3x3	Dual	SMPS	N	No	No		20	12	22	14	16.7	6.7	23	26	34	52		1.1	525	75	6	2	3	20		
AON3818	NEW	DFN 3x3	Common Drain	Battery Protection	N	Yes	No	24	12	8	6	2.7	1.7		13.5	21			1.2	840	205	9.5	4.5	300	1700		
AON3814	DFN 3x3	Common Drain	Battery Protection	N	Yes	No		20	12	6	5.3	2.5	1.6		17	24			1.1	920	75	11	3.2	300	7900		
AON3816	DFN 3x3	Common Drain	Battery Protection	N	Yes	No		20	12	4	3.1	2.5	1.6		22	28			1.1	920	75	11	3.2	300	7900		
AON3611	DFN 3x3	Complementary	General Purpose	N	No	No		30	20	5	3.8	2.1	1.3	50	70				2.5	170	23	2	1	4.5	18.5		
AON3611	DFN 3x3	Complementary	General Purpose	P	No	No		-30	20	-6	-4.7	2.5	1.6	38	62				-2.4	520	65	4.6	2.2	7.5	19		
AON3613	DFN 3x3	Complementary	General Purpose	N	Yes	No		30	12	4.5	3.5	2.1	1.3	52	60				1.5	245	20	2.6	1	2	22		
AON3613	DFN 3x3	Complementary	General Purpose	P	No	No		-30	20	-4.5	-3.5	2.1	1.3	68	100				-2.3	290	40	2.8	1.3	6	21		
AON7611	DFN 3x3	Complementary	Inverter	N	No	No		30	20	9	5.5	7	2.8	50	70				2.5	170	23	2	1	4.5	18.5		
AON7611	DFN 3x3	Complementary	Inverter	P	No	No		-30	20	-18.5	-11.5	20.8	8.3	38	62				-2.4	520	65	4.6	2.2	7.5	19		
AON7932	DFN 3x3A	Asymmetric	SMPS	N	No	No		30	20	26	16	23	9	20	30				2.4	380	13	2.3	1	10	15		
AON7932	DFN 3x3A	Asymmetric	SMPS	N	No	No		30	12	35	22	25	10	12	15				2.1	1020	75	9	3	11	29		
AON7934	DFN 3x3A	Asymmetric	SMPS	N	No	No		30	20	16	12	23	9	10.2	15.8				2.2	485	32	3.9	2.1	3.5	16.3		
AON7934	DFN 3x3A	Asymmetric	SMPS	N	No	No		30	20	18	14	25	10	7.7	11.6				2.2	807	40	6	3	4.8	18.8		
DFN 3.3x3.3																											
AON7210	DFN 3.3x3.3	Single	SMPS	N	No	No		30	20	50	39	83	33	4	5.8				2.3	1983	54	10.5	3.6	7.3	21.2		
AON7418	DFN 3.3x3.3	Single	Load Switch	N	No	No		30	20	50	39	83	33	1.7	2.8				2.2	2994	196	23	10	10.5	30.8		
AON7428	DFN 3.3x3.3	Single	Load Switch	N	No	No		30	20	50	39	83	33	2.8	3.6				2.3	2600	280	24	8	7	58		
AON7510	DFN 3.3x3.3	Single	Load Switch	N	No	No		30	20	75	59	46	18.5	1.25	2.1				2	4500	1310	60	40	10	58		
AON7520	DFN 3.3x3.3	Single	Load Switch	N	Yes	No		30	12	50	39	83.3	33.3	1.8	2.1	3.1			1.2	4175	300	37	12.5	6.5	58.5		
AON7536	NEW	DFN 3.3x3.3	Single	General Purpose	N	No	No	30	20	68	43	32.5	13	4.2	6.2				2.2	1950	80	12.7	4.4	7.5	21		
AON7758	DFN 3.3x3.3	Single	General Purpose	N	No	Yes	SRFET	30	12	75	59	34	13.5	1.85	2.4				2	5200	86	29	3.6	12	47.5		
AON7784	DFN 3.3x3.3	Single	SMPS Low Side	N	No	Yes		30	12	50	39	83	33	3.5	4				2.1	3800	260	28	9	10	55		
AON7220	DFN 3.3x3.3	Single	SMPS	N	No	No		25	12	50	39	83	33	3	4				1.8	2961	66	17.4	3.6	7.8	37.8		

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AON7760	DFN 3.3x3.3	Single	SMPS Low Side	N	No	Yes	SRFET	25	16	75	59	34.5	14	2	2.9					2.2	4240	210	23	6	10	40	
AON7421	DFN 3.3x3.3	Single	Load Switch	P	No	No		-20	12	-50	-39	83	33	4.6	5.8	9				-1.2	4550	563	44	14	7	134	
AON7423	DFN 3.3x3.3	Single	Load Switch	P	No	No		-20	8	-50	-39	83	33		5	6.5	8.5			-0.9	5626	716	70	18.4	18	285	
AON7405	DFN 3.3x3.3	Single	Load Switch	P	No	No		-30	25	-50	-39	83	33	6.2	8.9*					-2.8	2450	370	21	12	9.5	104	
AON7902 ⁽¹⁾	DFN 3.3x3.3A	Asymmetric	SMPS	N	No	No		30	20	24	15	17	7	21	28					1.8	590	23	4	1.5	6	18	
AON7902 ⁽¹⁾	DFN 3.3x3.3A	Asymmetric	SMPS	N	No	Yes		30	12	40	31	50	20	6.2	7.4					1.6	3500	260	28	11	8	50	
DFN 5x6																											
AON6200L ⁽¹⁾	DFN 5x6	Single	SMPS	N	No	No		30	20	24	18	34	14	7.8	11					2.4	1090	38	7	2.5	5	16	
AON6202 ⁽¹⁾	DFN 5x6	Single	SMPS	N	No	No		30	20	24	19	35	14	5.5	7.5					2.3	1840	63	12	4.2	6.5	21	
AON6204 ⁽¹⁾	DFN 5x6	Single	General Purpose	N	No	No		30	20	24	19	31	13	12	18					2.4	510	22	3.5	1.4	4.3	15.8	
AON6210 ⁽¹⁾	DFN 5x6	Single	SMPS	N	No	No		30	20	85	67	83	33	1.8	2.5					2.1	5250	160	38	13	12	53	
AON6400	DFN 5x6	Single	Load Switch	N	No	No		30	20	85	67	83	33	1.4	1.8					2.2	6900	730	70	32	12	88	
AON6404A	DFN 5x6	Single	Load Switch	N	Yes	No		30	20	85	67	83	33	2.3	3					2.4	4335	435	33	16	10	75.5	
AON6414A	DFN 5x6	Single	SMPS High Side	N	No	No		30	20	50	31	31	12.5	8	10.5					2.5	1150	105	9.5	5	6.5	17	
AON6426	DFN 5x6	Single	Load Switch	N	No	No		30	20	65	43	42	17	5.5	7.5					2.5	1930	230	37	11	8.1	29	
AON6428	DFN 5x6	Single	SMPS High Side	N	No	No		30	20	43	27	30	12	10	14.5					2.2	770	77	7.1	3.1	5	18	
AON6500	DFN 5x6	Single	General Purpose	N	No	No		30	20	200	151	83	33	0.95	1.3					2	7036	353	49.7	21.4	12.3	68.5	
AON6502	DFN 5x6	Single	General Purpose	N	No	No		30	20	85	66	83	33	2.2	2.7					2.2	3430	175	25	10.3	7.5	33.8	
AON6504	DFN 5x6	Single	General Purpose	N	No	No		30	20	85	66	83	33	1.8	3.3					2.2	2719	169	21	7	9.7	32.5	
AON6506	DFN 5x6	Single	General Purpose	N	No	No		30	20	36	28	83	33	2.6	3.8					2.2	2719	169	21	7	9.7	32.5	
AON6508	DFN 5x6	Single	General Purpose	N	No	No		30	20	32	25	41	16	3.2	5					2.2	2010	124	17	8	7.5	37	
AON6510	NEW	DFN 5x6	Single	General Purpose	N	No	No	30	20	32	25	46	18.5	4.4	5.9					2.2	2160	115	14	6.3	8	29	
AON6512	DFN 5x6	Single	General Purpose	N	No	No		30	20	150	115	83	33	1.7	2.4					2	3430	175	25	10.3	7.5	33.8	
AON6516	DFN 5x6	Single	General Purpose	N	No	No		30	20	56	36	25	10	5	8					2.2	1229	83	12	5.5	7	24	
AON6518	DFN 5x6	Single	General Purpose	N	No	No		30	20	85	66	56	22	1.75	2.7					2.2	3700	225	26	8.2	10.5	34	
AON6520	DFN 5x6	Single	General Purpose	N	No	No		30	20	50	29	31	12.5	8.5	11					2.5	1150	105	9.5	5	6.5	17	
AON6524	DFN 5x6	Single	General Purpose	N	No	No		30	20	68	43	35.5	14	5	8.5					2.3	1080	92	8.1	4	6.5	20	
AON6526 ⁽¹⁾	DFN 5x6	Single	General Purpose	N	No	No		30	20	32	25	25	10	7	9					2.2	1229	83	12	5.5	7	24	
AON6530 ⁽¹⁾	DFN 5x6	Single	General Purpose	N	No	No		30	20	72	45	35.5	14	4.5	7.8					2.4	1315	95	10	4.5	7	21.5	
AON6532	DFN 5x6	Single	General Purpose	N	No	No		30	20	68	43	35.5	14	5	9					2.4	1080	92	8.1	4	6.5	20	
AON6536	DFN 5x6	Single	General Purpose	N	No	No		30	20	55	35	35.5	14	7	10					2.5	1210	100	9	3.5	6	21.5	
AON6538	DFN 5x6	Single	General Purpose	N	No	No		30	20	75	48	35.5	14	4	7.4					2.4	1315	95	10	4.5	7	21.5	
AON6544	DFN 5x6	Single	General Purpose	N	No	No		30	20	85	66	83	33	1.4	1.9					2.2	5910	335	41	18.5	13	51	
AON6548	DFN 5x6	Single	General Purpose	N	No	No		30	20	85	66	83	33	1.8	2.5					2.2	4290	300	31.2	14.6	11	38.8	
AON6552	DFN 5x6	Single	General Purpose	N	No	No		30	20	30	23	25	10	5	8.5					2.2	1037	61	6.8	3.6	5.5	18	
AON6554	DFN 5x6	Single	General Purpose	N	No	No		30	12	85	66	70	28	2.9	3.7					2.2	3020	140	21.3	7.2	7.5	41	
AON6558	DFN 5x6	Single	General Purpose	N	No	No		30	20	30	24	24	9.5	5.1	8.2					2.2	1128	59	7.4	2.3	5.5	22.5	
AON6566	DFN 5x6	Single	General Purpose	N	No	No		30	20	32	25	25	10	5	8.5					2.4	1300	75	8.5	2.5	7.5	23.3	
AON6572	NEW	DFN 5x6	Single	SMPS Low Side	N	No	Yes	30	12	85	63.5	48	19.2	3.2	3.9					2	3290	135	20.3	4.4	8.5	42	
AON6576	NEW	DFN 5x6	Single	SMPS Low Side	N	No	Yes	30	20	32	25	26	10.4	4.7	7.2					2.2	1320	70	8.8	4	7	21	
AON6586	NEW	DFN 5x6	Single	SMPS Low Side	N	No	Yes	30	20	35	30	41	16	7.5	10.5					2.5	1150	105	9.5	5	6.5	17	
AON6588	NEW	DFN 5x6	Single	SMPS Low Side	N	No	Yes	30	20	32	25	46	18.5	3.3	4.8					2.2	2160	115	14	6.3	8	29	
AON6594	NEW	DFN 5x6	Single	SMPS Low Side	N	No	Yes	30	20	35	27	39	15.5	7	11					2.2	1037	61	6.8	3.6	5.6	18	
AON6596	NEW	DFN 5x6	Single	SMPS Low Side	N	No	Yes	30	20	35	30	41	16	7.5	10.5					2.2	1150	105	9.5	5	6.5	17	
AON6752	DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20	85	66	83	33	1.7	2.5					2.2	3509	180	25.6	9.5	8	35.8	
AON6754	DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20	85	66	83	33	1.8	3.3					2.4	2796	165	22.3	8.6	9.5	35.8	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V							
AON6756	DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20	36	28	83	33	2.4	4					2.4	2796	165	22.3	8.6	9.5	35.8
AON6758	DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20	32	25	41	16	3.6	5					2.4	1975	92	13.6	5.3	7.9	27.3
AON6760	NEW	DFN 5x6	Single	General Purpose	N	No	Yes	SRFET	30	12	36	28	39	15	3.9	4.9			2	3440	60	21	3.7	8.5	34	
AON6774	DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20	85	66	48	19	2.05	3.15					2.2	3000	160	20.5	7.5	11	38.5
AON6522	DFN 5x6	Single	General Purpose	N	No	No		25	20	200	151	83	33	0.95	1.3					2	7036	353	49.7	21.4	12.3	68.5
AON6411	DFN 5x6	Single	Load Switch	P	No	No		-20	12	-85	-67	156	62.5	2.1	2.5	3.6				-1.3	10290	1395	100	36	9	282
AON6403	DFN 5x6	Single	Load Switch	P	No	No		-30	20	-85	-67	83	33	3.1	4.3					-2.2	7600	1050	79	33	13	135
AON6405	DFN 5x6	Single	Load Switch	P	Yes	No		-30	20	-30	-23	83	33	7	8					-1.6	4580	564	41	17	180	1200
AON6407	DFN 5x6	Single	Load Switch	P	No	No		-30	25	-85	-67	83	33	4.5						-2.6	3505	650	75*	23*	14	94
AON6413	NEW	DFN 5x6	Single	Load Switch	P	Yes	No	-30	25	-32	-25	48	19	8.5	17				-2.7	2142	363	18.5	6	13	34	
AON6435	DFN 5x6	Single	Load Switch	P	No	No		-30	25	-34	-21.5	31	12.5	17	34					-3	1130	155	10	6	10	15
AON6816	DFN 5x6	Dual	General Purpose	N	Yes	No		30	20	16	13	21	8	6.2	9.6					2.2	1540	448	19.7	15	7	24
AON6810	DFN 5x6B	Common Drain	Battery Management	N	Yes	No		30	20	20	16	31	12.5	4.4	6.5					2.2	1720	61	11	3.2	5.8	57.5
AON6812	DFN 5x6B	Common Drain	Battery Management	N	Yes	No		30	20	28	22	31	12.5	4	6					2.2	1720	61	11	3.2	5.8	57.5
AON6906A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	48	30	45	18	11.7	17.5					2.3	570	20	3.5	1.4	4.1	15.2
AON6906A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	37	23	31	12.5	14.4	21.3					2.4	510	22	3.3	1.4	4.3	15.8
AON6908A	DFN 5x6B	Asymmetric	SMPS	N	No	Yes	SRFET	30	12	80	62	78	31	3.6	4.5					2	4380	280	31	9	10	50
AON6908A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	46	28	31	12	8.9	12.5					2.4	850	30	5.7	2.6	5	18.5
AON6910A	DFN 5x6B	Asymmetric	SMPS	N	No	Yes	SRFET	30	12	80	52	52	20	4.1	5					2	3415	232	24	10	9	47
AON6910A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	37	23	31	12.5	14	20					2.4	510	22	3.3	1.4	4.3	15.8
AON6912A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	52	33	30	12	7.3	10.4					2.5	1090	38	7	2.5	5	16
AON6912A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	34	21	22	9	13.7	19.3					2.5	760	70	6.6	3	4.4	17
AON6920	DFN 5x6A	Asymmetric	SMPS	N	No	No		30	20	60	38	31	12.5	5.2	7.8					2.3	1300	35	7.2	1.8	5	20
AON6920	DFN 5x6A	Asymmetric	SMPS	N	No	No		30	20	85	66	104	41.5	1.8	2.7					2.3	4000	65	23	6	7	33
AON6924	DFN 5x6A	Asymmetric	SMPS	N	No	No		30	20	60	38	31	12.5	5.2	7.8					2.3	1300	35	7.2	1.8	5	20
AON6924	DFN 5x6A	Asymmetric	SMPS	N	No	Yes	SRFET	30	12	85	66	104	14.5	1.6	1.9					2.1	8190	670	60	20	15	103
AON6926	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	50	32	35	14	8.5	12					2.4	1130	40	8	3	6	19
AON6926	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	44	28	31	12.5	11	14					2.5	1150	105	9.5	5	6.5	17
AON6928	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	30	23	31	12.5	8.2	11.5					2.5	1150	105	9.5	5	6.5	17
AON6928	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	36	28	33	13	2.9	4.4					2.2	2010	124	17	8	7.5	37
AON6932A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	28	22	31	12	5	8.5					2.2	1037	61	6.8	3.6	5.5	18
AON6932A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	42	33	78	31	2.5	3.2					1.9	3430	175	25	10.3	7.5	33.8
AON6934A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	28	22	31	12	5.2	9.5					2.2	1037	61	6.8	3.6	5.5	18
AON6934A	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	36	28	33	13	2.9	4.4					2.2	2010	124	17	8	7.5	37
AON6936	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	44	34	83	33	2	2.8					2.3	4178	261	29	10.5	39.8	92.5
AON6936	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	32	25	31	12	4.9	8.4					2.5	984	66	8.3	2.8	21.8	51.3
AON6938	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	30	23	31	12.5	8.2	11.5					2.5	1150	105	9.5	5	6.5	17
AON6938	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	42	33	78	31	2.2	3.3					2.2	2719	169	21	7	9.7	32.5
AON6946	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	16	12	7.3	2.9	11.6	17					2.2	485	32	3.9	2.1	3.5	16.3
AON6946	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	18	14	13	5.2	7.8	11.8					2.2	807	40	6	3	4.8	18.8
AON6970	DFN 5x6D	Asymmetric	SMPS	N	No	No		30	20	85	66	78	31	1.5	2.3					2.3	3973	134	27	10	11.5	38
AON6970	DFN 5x6D	Asymmetric	SMPS	N	No	No		30	20	58	36	31	12	5.4	8.5					2.3	1171	59	8	2	6.5	17
AON6973A ⁽¹⁾	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	28	22	31	12	5.2	9.5					2.2	951	62	7.5	3.2	6.25	18.5
AON6973A ⁽¹⁾	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	36	28	33	13	3.8	6.4					2.4	1975	92	13.6	5.3	7.9	27.3
AON6974A ⁽¹⁾	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	28	22	31	12	5.2	9.5					2.2	951	62	7.5	3.2	6.25	18.5
AON6974A ⁽¹⁾	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	36	28	33	13	3.2	5					2.4	1975	92	13.6	5.3	7.9	27.3

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)
											25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V							
AON6978		DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	28	22	31	12	5.7	9.4					2.2	1010	50	6.8	2.5	4.8	21
AON6978		DFN 5x6B	Asymmetric	SMPS	N	No	Yes	SRFET	30	12	36	28	33	13	3.8	4.9					2	3276	57	20.6	4.6	8	36
AON6980	NEW	DFN 5x6B	Asymmetric	SMPS	N	No	No		30	20	28	22	23.5	9.4	6.8	10.3					2.2	1095	28	6.4	2	8	17.2
AON6980	NEW	DFN 5x6B	Asymmetric	SMPS	N	No	Yes	SRFET	30	12	36	28	32	13	3.8	4.9					2	3440	60	21	3.7	8.5	34
AON6918		DFN 5x6A	Asymmetric	SMPS	N	No	No		25	20	60	38	31	12.5	5.2	7.8					2.3	1300	35	7.2	1.8	5	20
AON6918		DFN 5x6A	Asymmetric	SMPS	N	No	No		25	20	85	66	104	41.5	1.8	2.7					2.3	4000	65	23	6	7	33
AON6922		DFN 5x6A	Asymmetric	SMPS	N	No	No		25	12	71	44	31	12.5	3.8	4.8					1.7	1950	70	11.2	4	5.5	30
AON6922		DFN 5x6A	Asymmetric	SMPS	N	No	No		25	12	85	66	104	41.5	1.4	1.8					1.7	5690	165	26	5.7	9	60
SO-8																											
AO4310		SO-8	Single	General Purpose	N	No	No		36	20	27	22	3.6	2.3	3.1	4.2					2.3	3248	54	20.6	6.2	8.5	40.8
AO4312		SO-8	Single	Battery Protection	N	No	No		36	20	23	18	4.2	2.7	4.5	6.2					2.3	1952	50	12.7	4.7	7	26
AO4314		SO-8	Single	Battery Protection	N	No	No		36	20	20	16	4.2	2.7	6	8.5					2.3	1225	35	8.6	3.2	4.5	20.3
AO4202		SO-8	Single	SMPS Low Side	N	No	No		30	20	19	15	3.1	2	5.3	7					2.3	1840	63	13	4.2	6.5	21
AO4302		SO-8	Single	Battery Protection	N	Yes	No		30	20	23	18	3.6	2.3	4	5					2.3	2891	256	24.8	10.9	7	41.5
AO4304		SO-8	Single	Battery Protection	N	No	No		30	20	18	14	3.6	2.3	6	7.6					2.4	1598	154	11.1	5.6	7.3	25
AO4354		SO-8	Single	General Purpose	N	No	No		30	20	23	14	3.1	1.2	3.7	5.3					2.2	2010	124	17	8	7.5	37
AO4404B		SO-8	Single	General Purpose	N	No	No		30	12	8.5	7.1	3.1	2	24	30	48				1.45	630	50	6	1.8	3	25
AO4406A		SO-8	Single	General Purpose	N	No	No		30	20	13	10.4	3.1	2	11.5	15.5					2.5	760	70	6.6	3	4.4	17
AO4410 ⁽¹⁾		SO-8	Single	SMPS Low Side	N	No	No		30	12	18	15	3	2.1	5.5	6.2					1.5	9130	387	72.4	16.8	11	99
AO4430		SO-8	Single	General Purpose	N	No	No		30	20	18	15	3	2.1	5.5	7.5					2.5	6060	355	48	15	12	51.5
AO4446		SO-8	Single	SMPS High Side	N	No	No		30	20	15	12	3	2.1	8.5	14.5					3	1520	214	17	10	7.2	22
AO4466		SO-8	Single	SMPS High Side	N	No	No		30	20	10	7	3.1	2	23	35					2.6	373	41	3.5	1.6	4.3	15.8
AO4468		SO-8	Single	Load Switch	N	No	No		30	20	10.5	8.5	3.1	2	17	23					2.4	740	82	7.5	3	5	19
AO4476A		SO-8	Single	SMPS	N	No	No		30	20	15	12	3.1	2	7.7	10.8					2.5	1150	105	9.5	5	6.5	17
AO4478		SO-8	Single	General Purpose	N	No	No		30	25	9	7	3.1	2	19	26					2	466	61	4.3	2.3	5	20
AO4490		SO-8	Single	Load Switch	N	Yes	No		30	20	16	13	2.8	1.8	7.2	10					2.5	1803	238	19*	8.7	7.6	27
AO4492		SO-8	Single	SMPS High Side	N	No	No		30	20	14	11.4	3.1	2	9.5	14					2.2	770	77	7.1	3.1	5	18
AO4494		SO-8	Single	SMPS High Side	N	No	No		30	20	18	14	3.1	2	6.5	9.5					2.5	1590	145	15	7.8	6.7	22.5
AO4496		SO-8	Single	SMPS	N	No	No		30	20	10	7.5	3.1	2	19.5	26					2.5	550	55	4.6	2.2	5	24
AO4498		SO-8	Single	Load Switch	N	No	No		30	20	18	14	3.1	2	5.5	7.5					2.5	1910	227	18	11	8.1	29
AO4498E		SO-8	Single	Load Switch	N	Yes	No		30	20	18	14	3.1	2	5.8	8.5					2.3	2300	240	20	10	8	33
AO4566		SO-8	Single	General Purpose	N	No	No		30	20	12	9.4	2.5	1.6	11	17					2.3	542	31	4.3	1.7	4	18
AO4568	NEW	SO-8	Single	General Purpose	N	No	No		30	20	12	9.4	2.5	1.6	11.5	17.5					2.2	600	30	4.4	1.9	5	17.5
AO4576		SO-8	Single	General Purpose	N	No	No		30	20	20	12	3.1	1.2	5.8	9.8					2.2	1037	61	6.8	3.6	5.5	18
AO4578		SO-8	Single	General Purpose	N	No	No		30	20	20	15	3.1	2	5.7	9					2.2	1128	59	7.4	2.3	5.5	22.5
AO4588		SO-8	Single	Load Switch	N	Yes	No		30	20	20	15.5	3.1	2	4.8	6.2					2.4	2445	220	19	6.6	7	41.5
AO4752		SO-8	Single	General Purpose	N	No	Yes	SRFET	30	20	15	12	3.1	2	8.8	15.5					2.5	605	36.5	5.5	2.6	5	17
AO4402		SO-8	Single	Load Switch	N	No	No		20	12	20	16	3.1	2		5.5	7				1.6	3860	580	36	12	7	70
AO4437		SO-8	Single	Load Switch	P	Yes	No		-12	8	-11	-9	3	2.1		16	20	25			-1	3960	757	37	11	15	158
AO4453		SO-8	Single	Load Switch	P	No	No		-12	8	-9	-7	2.5	1.6		19	26	36	50		-0.9	1370	258	12.7	3.4	11	70
AO4403		SO-8	Single	General Purpose	P	No	No		-30	12	-6	-5	3.1	2	48	57	80				-1.3	645	55	7	2.5	6.5	41
AO4405		SO-8	Single	General Purpose	P	No	No		-30	20	-6	-5.1	3.1	2	50	85					-2.4	520	65	4.6	2.2	7.5	19
AO4407		SO-8	Single	Load Switch	P	No	No		-30	25	-12	-10	3.1	2	14						-2.8	2060	295	30	10	11	24
AO4407A		SO-8	Single	Load Switch	P	No	No		-30	25	-12	-10	3.1	2	13						-3	2060	295	30*	10	11	24
AO4409		SO-8	Single	Load Switch	P	No	No		-30	20	-15	-12.8	3.1	2	7.5	12					-2.7	5270	745	51.5	23	14	76.5
AO4411		SO-8	Single	General Purpose	P	No	No		-30	20	-8	-6.6	3.1	2	32	55					-2.4	760	95	6.7	3.2	8	17

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V							
AO4413	SO-8	Single	Load Switch	P	No	No		-30	25	-15	-12.8	3.1	2	8.5						-3.5	2890	470	51*	16	16	45
AO4419	SO-8	Single	General Purpose	P	No	No		-30	20	-9.7	-7.8	3.1	2	20	35					-2.5	1040	125	9.6	4.6	10	26
AO4423	SO-8	Single	Load Switch	P	Yes	No		-30	25	-17	-14	3.1	2	7.2						-2.6	2527	397	47*	14	12	54
AO4435	SO-8	Single	Load Switch	P	No	No		-30	25	-10.5	-8	3.1	2	18	36					-3	1130	155	9.5	3.3	8.7	18
AO4447 ⁽¹⁾	SO-8	Single	Load Switch	P	Yes	No		-30	20	-15	-13.6	3.1	2	7.5						-1.6	5500	473	45.2	19.4	12	100
AO4447A	SO-8	Single	Load Switch	P	Yes	No		-30	20	-17	-13	3.1	2	7	8					-1.6	4580	564	41	17	180	1200
AO4449	SO-8	Single	Load Switch	P	No	No		-30	20	-7	-5.5	3.1	2	34	54					-2.4	760	95	6.7	3.2	8	17
AO4455	SO-8	Single	Load Switch	P	Yes	No		-30	25	-17	-14	3.1	2	7.2						-2.6	2823	424	54*	16*	12.5	49
AO4459	SO-8	Single	Load Switch	P	No	No		-30	20	-6.5	-5.3	3.1	2	46	72					-2.4	520	65	4.6	2.2	7.5	19
AO4771	SO-8	Single	General Purpose	P	No	Yes	4 A	-30	20	-4	-3	2	1.3	68	105					-2.3	290	40	2.8	1.3	6	21
AO4425	SO-8	Single	Load Switch	P	Yes	No		-38	25	-14	-11	3.1	2	11						-3.5	3800	350	63*	16.1	12.4	97.5
AO4800	SO-8	Dual	General Purpose	N	No	No		30	12	6.9	5.8	2	1.3	27	32	50				1.5	630	50	6	1.8	3	25
AO4800B	SO-8	Dual	General Purpose	N	No	No		30	12	6.9	5.8	2	1.3	27	32	50				1.5	630	50	6	1.8	3	25
AO4812	SO-8	Dual	General Purpose	N	No	No		30	20	6	5	2	1.3	30	42					2.4	255	35	2.55	1.3	4.5	14.5
AO4818	SO-8	Dual	General Purpose	N	Yes	No		30	20	8	6.5	2	1.3	19	23					2.4	740	82	7.5	3	5	19
AO4818B	SO-8	Dual	General Purpose	N	Yes	No		30	20	8.5	6.5	2	1.3	19	26					2.4	740	82	7.5	3	5	19
AO4822 ⁽¹⁾	SO-8	Dual	General Purpose	N	No	No		30	20	8	6.5	2	1.3	19	26					2.4	740	82	7.5	3	5	19
AO4822A	SO-8	Dual	General Purpose	N	No	No		30	20	8.5	6.5	2	1.3	19	26					2.4	740	82	7.5	3	5	19
AO4832	SO-8	Dual	SMPS	N	No	No		30	20	10	8	2	1.3	13	17.5					2.5	760	70	6.6	3	4.4	17
AO4838	SO-8	Dual	SMPS	N	No	No		30	20	11	9	2	1.3	9.6	13					2.6	1080	110	8	3	6	21
AO4842	SO-8	Dual	General Purpose	N	No	No		30	20	7.7	6.5	2	1.44	22	32					2.6	373	41	3.5	1.7	4.5	14.9
AO4854	SO-8	Dual	SMPS	N	Yes	No		30	20	8	6.5	2	1.3	19	23					2.4	740	82	7.5	3	5	19
AO4862	NEW	SO-8	Dual	Inverter	N	No	No	30	20	4.5	3.5	1.7	1.1	50	68					2.5	200	25	2	1	4.5	18.5
AO4806	SO-8	Dual	General Purpose	N	Yes	No		20	12	9.4	7.5	2	1.28	14	16	22	30			1	1810	200	17.9	4.7	3.3	44
AO9926B	SO-8	Dual	Battery Protection	N	No	No		20	12	7.6	6.1	2	1.28	23	26	34	52			1.1	525	75	6	2	3	20
AO9926C	SO-8	Dual	Battery Protection	N	No	No		20	12	7.6	6.1	2	1.28	23	26	34	52			1.1	525	75	6	2	3	20
AO4821	SO-8	Dual	Load Switch	P	Yes	No		-12	8	-9	-7	2	1.28		19	24	30			-0.85	1710	200	19	5.3	240	7000
AO4801	SO-8	Dual	General Purpose	P	No	No		-30	12	-5	-4	2	1.3	48	57	80				-1.3	645	55	7	2.5	6.5	41
AO4801A	SO-8	Dual	General Purpose	P	No	No		-30	12	-5	-4	2	1.3	48	57	80				-1.3	645	55	7	2.5	6.5	41
AO4803	SO-8	Dual	General Purpose	P	No	No		-30	20	-5	-4.2	2	1.3	52	87					-2.4	520	65	4.6	2.2	7.5	19
AO4803A	SO-8	Dual	General Purpose	P	No	No		-30	20	-5	-4	2	1.3	46	74					-2.5	520	65	4.6	2.2	7.5	19
AO4805	SO-8	Dual	Load Switch	P	No	No		-30	25	-9	-7	2	1.3	18						-2.8	2060	295	30*	10	11	24
AO4807	SO-8	Dual	General Purpose	P	No	No		-30	20	-6	-5	2	1.3	35	58					-2.4	760	95	6.7	3.2	8	17
AO4813	SO-8	Dual	General Purpose	P	No	No		-30	20	-7.1	-5.6	2	1.3	25	40					-2.5	1040	125	9.3	4.6	10	26
AO4815	SO-8	Dual	Load Switch	P	Yes	No		-30	25	-8	-6.9	2	1.44	20						-3	2330	320	41*	12	13	51
AO4817 ⁽¹⁾	SO-8	Dual	Load Switch	P	Yes	No		-30	25	-8	-6.9	2	1.44	21						-3	1760	255	30*	8	12.5	40
AO4606	SO-8	Complementary	Inverter	N	No	No		30	20	6	5	2	1.3	30	42					2.4	255	35	2.55	1.3	4.5	14.5
AO4606	SO-8	Complementary	Inverter	P	No	No		-30	20	-6.5	-5.3	2	1.3	28	44					-2.4	760	95	6.7	3.2	8	17
AO4616	SO-8	Complementary	Inverter	N	No	No		30	20	8.5	6.5	2	1.28	20	28					3	1040	110	9.36	4.2	5.2	17.3
AO4616	SO-8	Complementary	Inverter	P	No	No		-30	20	-7.1	-5.6	2	1.28	25	40					-2.7	1573	211	16.1	4.4	9.5	44.2
AO4620	SO-8	Complementary	Inverter	N	No	No		30	20	7.2	6.2	2	1.44	24	36					2.6	373	41	3.5	1.7	4.5	14.9
AO4620	SO-8	Complementary	Inverter	P	No	No		-30	20	-5.3	-4.5	2	1.44	32	55					-2.4	760	95	6.7	3.2	8	17
AO4627	SO-8	Complementary	Inverter	N	No	No		30	20	4.5	3.5	2	1.3	50	68					2.5	170	23	2	1	4.5	18.5
AO4627	SO-8	Complementary	Inverter	P	No	No		-30	20	-3.5	-2.5	2	1.3	100	165					-2.4	197	26	2.2	1.1	7.5	11.8
AO4629	SO-8	Complementary	Inverter	N	No	No		30	20	6	5	2	1.3	30	42					2.4	250	35	2.55	1.3	4.5	14.5
AO4629	SO-8	Complementary	Inverter	P	No	No		-30	20	-5.5	-4.5	2	1.3	41	74					-2.5	520	65	4.6	2.2	7.5	19

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g ⁺ (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)		
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V								1.2V	
AO4622	SO-8	Complementary	Inverter	N	No	No		20	16	7.3	6.2	2	1.44	23	30	84				2	900	105	7.2	2.8	4.5	18.7	
AO4622	SO-8	Complementary	Inverter	P	No	No		-20	12	-5	-4.2	2	1.44		53	87				-1.3	800	103	7.4	2.9	4.4	44	
AO4914	SO-8	Asymmetric	SMPS	N	No	No		30	20	8.5	6.5	2	1.3	20.5	28					2.4	730	82	7.5	3	5	19	
AO4914	SO-8	Asymmetric	SMPS	N	No	Yes	1A	30	20	8.5	6.5	2	1.3	20.5	28					2.4	740	82	7.5	3	5	19	
AO4924	SO-8	Asymmetric	SMPS	N	No	No		30	12	7.3	5.9	2	1.3	24	29					1.5	900	65	10	3.75	3.2	21.5	
AO4924	SO-8	Asymmetric	SMPS	N	No	Yes	SRFET	30	12	9	7.2	2	1.3	15.8	19.5					2.4	1450	92	12	4.2	5.5	24	
AO4932	NEW	SO-8	Asymmetric	SMPS	N	No		30	20	8	6.5	2	1.3	19	23					2.4	740	82	7.5	3	5	19	
AO4932	NEW	SO-8	Asymmetric	SMPS	N	No	Yes	SRFET	30	12	11	9	2	1.3	12.5	15				2.1	1170	89	8.7	3	6	23	
AO4948	SO-8	Asymmetric	SMPS	N	No	No		30	20	8	6.5	2	1.3	19	28					2.4	740	82	7.5	3	5	19	
AO4948	SO-8	Asymmetric	SMPS	N	No	Yes	SRFET	30	20	8.8	7.1	2	1.3	16	22					2.2	1267	118	10.4	3.6	5.2	21.2	
AO4952	SO-8	Asymmetric	SMPS	N	No	No		30	20	11	9	2	1.3	11.5	16.5					2.2	542	31	4.3	1.7	4	18	
AO4952	SO-8	Asymmetric	SMPS	N	No	Yes	SRFET	30	20	11	9	2	1.3	10.5	15.5					2.5	605	37	4.9	2.3	5	17.5	
Ultra SO-8																											
AOL1202	Ultra SO-8	Single	SMPS	N	No	No		30	20	54	42	58	29	4.2	6					2.3	1840	63	12	4.2	6.5	21	
AOL1208	Ultra SO-8	Single	SMPS	N	No	No		30	20	50	36	50	25	11	15					2.4	850	30	7	3.5	6	19.5	
AOL1426	Ultra SO-8	Single	SMPS High Side	N	No	No		30	12	46	33	43	21	10.5	13.5					2.5	1210	85	10	2.7	10	21	
AOL1428A	Ultra SO-8	Single	SMPS High Side	N	No	No		30	20	49	38	93	46	8	11.5					2.6	1080	110	8	3	6	21	
AOL1448	Ultra SO-8	Single	SMPS High Side	N	No	No		30	20	36	28	30	15	9.5	14					2.2	770	77	7.1	3.1	5	18	
AOL1432	Ultra SO-8	Single	SMPS High Side	N	No	No		25	20	44	31	30	15	8.5	14					3	1430	215	13.5	7.75	6.5	22.7	
AOL1404	Ultra SO-8	Single	Load Switch	N	No	No		20	12	45	35	60	30		4	5.6				1.6	3860	580	36	12	7	70	
AOL1413	Ultra SO-8	Single	Load Switch	P	Yes	No		-30	25	-38	-27	38	19	17						-3.5	1760	255	11	8	11.5	35	
TO-220																											
AOT210L	TO-220	Single	General Purpose	N	No	No		30	20	105	82	176	88	2.9	3.7					2.2	3520	90	22	7	11	38	
AOT424	TO-220	Single	SMPS Low Side	N	No	No		30	20	110	88	100	50	4	5.5					3	3700	390	30.4	19.8	12.5	40	
TO-251A																											
AOI418	TO-251A	Single	SMPS High Side	N	No	No		30	20	36	28	50	25	8	11.5					2.5	1150	105	9.5	5	6.5	17	
AOI508	TO-251A	Single	General Purpose	N	No	No		30	20	70	55	50	25	3	4.5					2.2	2010	124	17	8	7.5	37	
AOI510	TO-251A	Single	General Purpose	N	No	No		30	20	70	54	60	30	2.6	4					2.2	2719	169	21	7	9.7	32.5	
AOI514	TO-251A	Single	General Purpose	N	No	No		30	20	46	36	50	25	5.9	11.9					2.6	1187	60	8.8	3.6	7.3	21.8	
AOI530	NEW	TO-251A	Single	General Purpose	N	No	No	30	20	70	55	83	41	2.7	4.2					2.2	3130	225	21.5	9.6	11	45	
AOI538	NEW	TO-251A	Single	General Purpose	N	No	No	30	20	70	54	93	46	3.1	4.8					3.1	2160	115	14	6.3	8	29	
AOI4102	TO-251A	Single	SMPS	N	No	No		30	20	19	13	21	10	37	64					3	360	30	3.2	2.2	4.3	12.8	
AOI403	TO-251A	Single	Load Switch	P	No	No		-30	25	-70	-55	90	45	8.5						-3.5	2890	470	51*	16*	16	45	
TO-251B																											
AOI516	TO-251B	Single	General Purpose	N	No	No		30	20	46	36	50	25	5	10					2.6	1333	42	8.5	2.5	7.5	23.3	
AOY514	TO-251B	Single	General Purpose	N	No	No		30	20	46	36	50	25	5.9	11.9					2.4	1187	60	8.8	3.6	7.3	21.8	
AOY516	TO-251B	Single	General Purpose	N	No	No		30	20	46	36	50	25	5	10					2.6	1333	42	8.5	2.5	7.5	23.3	
AOY526	TO-251B	Single	General Purpose	N	No	No		30	20	50	39	50	25	5	9					2.4	1300	75	8.5	2.5	7.5	23.3	
AOY528	TO-251B	Single	General Purpose	N	No	No		30	20	50	39	50	25	5.4	9.5					2.4	1187	60	8.8	3.6	7.3	21.8	
TO-252																											
AOD210	TO-252	Single	SMPS	N	No	No		30	20	70	55	150	75	3	3.9					2.2	3520	90	22	7	11	38	
AOD418	TO-252	Single	SMPS High Side	N	No	No		30	20	36	28	50	25	7.5	11					2.5	1150	105	9.5	5	6.5	17	
AOD480	TO-252	Single	General Purpose	N	No	No		30	20	25	18	21	11	23	33					2.6	373	41	3.5	1.6	4.3	15.8	
AOD484	TO-252	Single	SMPS	N	Yes	No		30	20	25	20	50	25	15	23					2.5	938	99	8.4	4.1	5	19	
AOD496	TO-252	Single	SMPS	N	No	No		30	20	62	44	62.5	31	9.5	16					2.5	1000	340	8.5	4.8	5.6	18.5	
AOD496A	TO-252	Single	General Purpose	N	No	No		30	20	57	40	50	25	9	14					2.2	770	77	7.1	3.1	5	18	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AOD508	TO-252	Single	General Purpose	N	No	No		30	20	70	55	50	25	3	4.5					2.2	2010	124	17	8	7.5	37	
AOD510	TO-252	Single	General Purpose	N	No	No		30	20	70	54	60	30	2.6	4					2.2	2719	169	21	7	9.7	32.5	
AOD514	TO-252	Single	General Purpose	N	No	No		30	20	46	36	50	25	5.9	11.9					2.6	1187	60	8.8	3.6	7.3	21.8	
AOD516	TO-252	Single	General Purpose	N	No	No		30	20	54	42	50	25	5	8					2.2	1229	83	24	4	7	24	
AOD526	TO-252	Single	General Purpose	N	No	No		30	20	50	39	50	25	5	9					2.4	1300	75	8.5	2.5	7.5	23.3	
AOD528	TO-252	Single	General Purpose	N	No	No		30	20	50	39	50	25	5.4	9.5					2.4	1187	60	8.8	3.6	7.3	21.8	
AOD538	NEW	TO-252	Single	General Purpose	N	No	No	30	20	70	54	93	46	3.1	4.8					3.1	2160	115	14	6.3	8	29	
AOD4102	TO-252	Single	SMPS	N	No	No		30	20	12	12	21	10	37	64					3	360	30	3.2	2.2	4.3	12.8	
AOD4132	TO-252	Single	SMPS Low Side	N	No	No		30	20	85	63	100	50	4	6					3	3700	390	33	17.6	12	40	
AOD456	TO-252	Single	SMPS Low Side	N	No	No		25	20	50	50	50	25	6	10					3	1850	275	15.7	8.2	7.5	30	
AOD502	TO-252	Single	General Purpose	N	No	No		25	20	46	36	50	25	8	11.9					2.4	1187	60	8.8	3.6	7.3	21.8	
AOD504	TO-252	Single	General Purpose	N	No	No		25	20	46	36	50	25	5	10					2.4	1333	42	8.5	2.5	7.5	23.3	
AOD4136	TO-252	Single	Load Switch	N	No	No		25	20	25	25	30	15	11	19					2.5	734	97	6.2	4	6	19.6	
AOD424	TO-252	Single	General Purpose	N	No	No		20	12	45	35	100	50	4.4	5.7					1.6	3860	580	36	12	7	70	
AOD476	TO-252	Single	SMPS	N	No	No		20	16	25	20	33.3	16.7	21	28	79				2	900	105	7.2	2.8	4.5	18.7	
AOD4120	TO-252	Single	SMPS	N	No	No		20	16	25	23	33.3	16.7	18	25	75				2	900	105	7.2	2.8	4.5	18.7	
AOD403	TO-252	Single	Load Switch	P	No	No		-30	25	-70	-55	90	45	8						-3.5	2890	470	51*	16*	16	45	
AOD417	TO-252	Single	Inverter	P	No	No		-30	20	-25	-20	50	25	34	55					-3	920	90	8.2	3.6	8	22	
AOD425	TO-252	Single	General Purpose	P	Yes	No		-30	25	-50	-30	71	36	17						-3.5	1760	255	11	8	11.5	35	
AOD607	TO-252	Complementary	Inverter	N	No	No		30	20	12	9.4	25	12.5	25	34					2.5	1040	110	9.8	3.5	4.5	17.4	
AOD607	TO-252	Complementary	Inverter	P	No	No		-30	20	-12	-9.4	25	12.5	37	62					-2.4	920	122	9.7	5.4	9	20	
TO-263																											
AOB210L	TO-263	Single	General Purpose	N	No	No		30	20	105	72	176	88	2.6	3.5					2.2	3520	90	22	7	11	38	
AOB409L	TO-263	Single	General Purpose	P	No	No		-60	20	-31.5	-22	83.3	41.6	38	50					-2.4	2461	120	19.7	8.9	12	38	
AOB411L	TO-263	Single	General Purpose	P	No	No		-60	20	-78	-55	187	93	16.5	22					-2.5	5330	234	40	18	17.5	83.5	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)		
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V								1.2V	
SC-89																											
AO5800E	SC-89-6	Dual	Load Switch	N	Yes	No		60	20	0.4	0.3	0.4	0.24	1600	1900					2.5	41	6			39.2	261	
SOT-223																											
AOH3106	SOT-223	Single	General Purpose	N	No	No		100	20	2	1.5	3.1	2	360	385					2	185	8	2.5	1.4	3.5	16	
AOH3110	SOT-223	Single	General Purpose	N	No	No		100	20	1	0.8	3.1	2	700	820					2.9	100	5	1.5	0.8	5	12	
SOT-23																											
AO3442	SOT-23-3	Single	General Purpose	N	No	No		100	20	1	0.8	1.4	0.9	630	720					2.9	100	5	1.5	0.8	5	12	
AO3460	SOT-23-3	Single	Load Switch	N	Yes	No		60	20	0.5	1.6	1.4	0.9	1700	2000					1.7	22	2	0.4	0.2	5.3	19.7	
AO3422	SOT-23-3	Single	General Purpose	N	No	No		55	12	2.1	1.7	1.25	0.8		160	200				2	214	12.6	2.6	0.8	2.3	16.5	
TSOP-6																											
AO6420	TSOP-6	Single	General Purpose	N	No	No		60	20	4.2	3.4	2	1.28	60	75					3	450	25	4.3	2.2	5.1	15.9	
DFN 2x2																											
AON2290	DFN 2x2B	Single	Load Switch	N	No	No		100	20	4.5	3.5	2.8	1.8	72	97					2.8	415	3	3	1.5	4	15	
AON2260	DFN 2x2B	Single	General Purpose	N	No	No		60	20	6	4.7	2.8	1.8	44	53					2.5	426	5	2.6	0.8	3	15	
AON2240	DFN 2x2B	Single	General Purpose	N	No	No		40	20	8	6	2.8	1.8	21	29					2.4	415	11	3	1.1	4	15	
DFN 3x3																											
AON7460	DFN 3x3	Single	General Purpose	N	No	No		300	30	4	2.5	33	13	830						4.5	310	2.9	6.8	2*	17	29	
AON7462	DFN 3x3	Single	General Purpose	N	No	No		300	30	2.5	1.6	25	10	1500						4.5	197	2	4.6*	1.5*	17	26	
AON7458	DFN 3x3	Single	General Purpose	N	No	No		250	30	5	3.2	33	13	560						4.3	306	3.2	6	1.5	14	23	
AON7296	DFN 3x3	Single	General Purpose	N	No	No		100	20	12.5	8	20.8	8.3	66	90					2.8	415	3	3	1.5	4	15	
AON7450	DFN 3x3	Single	General Purpose	N	No	No		100	25	21	13	43	17	48	57*					4.1	910	35	16*	4.7*	18	35	
AON7452	DFN 3x3	Single	General Purpose	N	No	No		100	25	5.5	3.5	17	7	310	370*					4.7	155	9	3*	0.9*	4	8.5	
AON7448	DFN 3x3	Single	General Purpose	N	No	No		80	25	25	15	36	15	30	37*					4.1	900	40	14.5*	4.6*	16	36	
AON7474A	NEW	DFN 3x3	Single	General Purpose	N	No	No	75	16	7.5	4.5	15.5	6	130	155					1.6	280	13	3	1.5	5	16	
AON7246	DFN 3x3	Single	General Purpose	N	No	No		60	20	34.5	22	34.7	13.9	15	19					2.5	1340	10	9	2.6	6	22	
AON7444	DFN 3x3	Single	General Purpose	N	No	No		60	20	33	21	42	17	22	26					2.6	1680	60	13	3.7	6	24	
AON7446	DFN 3x3	Single	General Purpose	N	No	No		60	20	8	5	16.7	7	145	160*					3.3	237	9	4.4*	1.1*	4.5	15	
AON7240	DFN 3x3	Single	SMPS	N	No	No		40	20	40	31	36.7	14	5.1	7					2.4	1830	43	12.8	6	7.2	23	
DFN 3.3x3.3																											
AON7254	DFN 3.3x3.3	Single	General Purpose	N	No	No		150	20	17	11	39	15.6	54	66					2.7	675	4	5.5	2.5	6	20	
AON7290	DFN 3.3x3.3	Single	General Purpose	N	No	No		100	20	50	35	83	33	12.6						3.4	2075	9.5	9	4	10	22.5	
AON7292	DFN 3.3x3.3	Single	General Purpose	N	No	No		100	20	23	15	28	11	24	32					2.6	1170	8	8	3.5	5	21	
AON7280	DFN 3.3x3.3	Single	General Purpose	N	No	No		80	20	50	39	83	33	8.5	12*					3.4	1871	14	26.5*	4*	11.5	21.5	
AON7244	DFN 3.3x3.3	Single	General Purpose	N	No	No		60	20	50	39	83	33	8.5	12					2.5	2030	8.5	11.5	2.5	7.5	24.5	
AON7242	DFN 3.3x3.3	Single	SMPS	N	No	No		40	20	50	39	83	33	3.9	5.8					2.3	1970	41	11.9	2.2	7	23	
DFN 5x6																											
AON6458	DFN 5x6	Single	General Purpose	N	No	No		250	30	14	8.8	83	33	170						4.5	1028	11	22*	8	28	65	
AON6250	DFN 5x6	Single	General Purpose	N	No	No		150	20	52	32	104	41.5	16.5	19*					3.4	2388	9.5	30.5*	4.5*	11	23	
AON6454A	DFN 5x6	Single	General Purpose	N	No	No		150	20	31	20	83	33	38	35*					4.6	1710	50	7.8	13.5	12	20	
AON6290	DFN 5x6	Single	General Purpose	N	No	No		100	20	85	67	208	83	4.6						3.4	4600	27	28.5	10	14.5	37	
AON6292	DFN 5x6	Single	General Purpose	N	No	No		100	20	85	67	156	62.5	6						3.4	3830	16.5	15.5	7	13	26	
AON6294	DFN 5x6	Single	General Purpose	N	No	No		100	20	52	33	57	23	10	14*					3.5	2265	10	28*	4*	10.5	20	
AON6298	DFN 5x6	Single	General Purpose	N	No	No		100	20	46	30	78	31	16.5	21*					3.4	1307	8	16*	3*	7.5	16.5	
AON6450	DFN 5x6	Single	SMPS	N	No	No		100	25	52	33	83	33	14.5	17.5*					4	2570	80	11.5*	13.5	15	28.5	
AON6452	DFN 5x6	Single	SMPS	N	No	No		100	25	26	17	35	14	25	31*					4	1770	55	28*	10	12	17	

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* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)
											25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V							
AON6482		DFN 5x6	Single	General Purpose	N	No	No		100	20	28	20	75	37	37	42					2.7	1630	50	18	9	7	29
AON6484		DFN 5x6	Single	General Purpose	N	No	No		100	20	12	7.5	25	10	79	90					2.7	778	24	9.6	5	6	21
AON6278		DFN 5x6	Single	General Purpose	N	No	No		80	20	85	66	104	42	3.3	4.6					3.3	4646	31	61.5*	9.5*	13	36
AON6280		DFN 5x6	Single	General Purpose	N	No	No		80	20	85	65	83	33	4.1	5					3.2	3930	66	58*	14*	13	32
AON6282		DFN 5x6	Single	General Purpose	N	No	No		80	20	85	56	83	33	5.6	8*					3.5	2848	22.5	36.5*	6*	11	25
AON6284		DFN 5x6	Single	General Purpose	N	No	No		80	20	78	49	78	31	7.1	10*					3.3	2162	16	28*	4.5	9	23
AON6448		DFN 5x6	Single	General Purpose	N	No	No		80	25	65	41	83	33	9.6	12*					3.7	2600	120	44*	14	18	24.5
AON6270		DFN 5x6	Single	General Purpose	N	No	No		75	20	85	67	83	33	3.9						3.2	4100	58	60*	14*	14	34
AON6242		DFN 5x6	Single	General Purpose	N	No	No		60	20	85	66	83	33	3.6	4.5					2.5	5305	22	23	3	13	47
AON6244		DFN 5x6	Single	General Purpose	N	No	No		60	20	85	59	83	33	4.7	6.2					2.5	3838	14.5	21	3	11	34
AON6246		DFN 5x6	Single	General Purpose	N	No	No		60	20	80	51	83	33	6.4	8					2.5	2850	15.5	18	4	8	29
AON6248		DFN 5x6	Single	General Purpose	N	No	No		60	20	53	34	69.5	27.5	11.5	14.7					2.5	1543	9	8.5	1.8	6	25
AON6260		DFN 5x6	Single	General Purpose	N	No	No		60	20	85	67	104	41.5	2.4	3.5					2.5	5578	75	37	12	13.5	50
AON6266	NEW	DFN 5x6	Single	General Purpose	N	No	No		60	20	30	22.5	38	15	15	19					2.5	1340	10	9	2.6	6	22
AON6444		DFN 5x6	Single	General Purpose	N	No	No		60	20	81	51	83	33	6.5	11.5					2.5	4800	190	40	14	13.5	51
AON6230		DFN 5x6	Single	General Purpose	N	No	No		40	20	85	66	104	42	1.44	2.1					2.3	6050	105	35	13	12	59
AON6232		DFN 5x6	Single	General Purpose	N	No	No		40	20	85	67	83	33	2.5	3.6					2.5	3165	52.5	18.2	2.8	8.7	33.5
AON6234		DFN 5x6	Single	General Purpose	N	No	No		40	20	85	67	83	33	3.4	5					2.4	2335	45	15	4.5	8	26
AON6236		DFN 5x6	Single	General Purpose	N	No	No		40	20	30	24	39	15.5	7	10.5					2.4	1225	26.5	8.2	2.5	6	23.5
AON6240		DFN 5x6	Single	General Purpose	N	No	No		40	20	85	67	83	33	1.6	2.4					2.4	5458	103	31	10.8	14.8	61.3
AON6440		DFN 5x6	Single	General Purpose	N	No	No		40	20	85	67	83	33	3.4	5.5					2.2	5000	300	40	15	13.7	54
AON6442		DFN 5x6	Single	General Purpose	N	No	No		40	20	65	42	35.7	14	4.8	7					2.4	1830	43	12.8	6	7.2	23
AON6850		DFN 5x6	Dual	General Purpose	N	No	No		100	25	28	18	56	22	35	42*					4	1530	66	24*	8*	11	16
AON6884		DFN 5x6	Dual	Inverter	N	No	No		40	20	34	21	21	8	11.3	13.8					2.7	1500	135	13.6	6.4	6.4	29.6
SO-8																											
AO4286		SO-8	Single	General Purpose	N	No	No		100	20	4	3	2.5	1.6	68	92					2.9	390	3	2.8	1.2	6	18
AO4292	NEW	SO-8	Single	General Purpose	N	No	No		100	20	8	6.2	3.1	2	23	33					2.7	1190	7	7	2.5	7	20
AO4452		SO-8	Single	General Purpose	N	No	No		100	25	8	6.5	3.1	2	25	31*					4	1770	55	28*	10	12	17
AO4454		SO-8	Single	General Purpose	N	No	No		100	25	6.5	5.3	3.1	2	36	43*					4	1180	36	19*	6.3	10	15
AO4482		SO-8	Single	Load Switch	N	No	No		100	20	6	5	3.1	2	37	42					2.7	1630	50	18	9	7	28
AO4486		SO-8	Single	General Purpose	N	No	No		100	20	4.2	3.4	3.1	2	79	90					2.7	778	24	8.1	4.1	6	21
AO4444L		SO-8	Single	General Purpose	N	No	No		80	25	11	9	3.1	2	12	14.5*					3.8	2386	100	38*	10	13	23
AO4448		SO-8	Single	General Purpose	N	No	No		80	25	10	8	3.1	2	16	20*					4.2	1670	72	28*	8	12	20
AO4442		SO-8	Single	Display	N	No	No		75	25	3.1	2.5	3.1	2	130	165					3	303	17	2.46	1.34	4.5	15.6
AO4260		SO-8	Single	General Purpose	N	No	No		60	20	18	14	3.1	2	5.2	6.3					2.3	4940	32	31	8.5	8.5	50
AO4264	NEW	SO-8	Single	General Purpose	N	No	No		60	20	12	9	3.1	2	11	13.5					2.5	2007	12.5	11	2.5	8.5	27
AO4438		SO-8	Single	Display	N	No	No		60	20	8.2	6.6	3.1	2	22	27					3	1920	116	24.2	14.4	8.2	29.7
AO4440		SO-8	Single	Display	N	No	No		60	20	5	4	2.5	1.6	55	75					2.5	450	25	4.3	2.2	5.1	15.9
AO4240		SO-8	Single	General Purpose	N	No	No		40	20	24	19	3.1	2	3.3	4.3					2.3	4245	69	28	8	9	42
AO4450		SO-8	Single	Load Switch	N	No	No		40	20	7	5.5	3.1	2	30	38					3	516	43	4.3	1.4	6.4	16.2
AO4480		SO-8	Single	Display	N	Yes	No		40	20	14	11	3.1	2	11.5	15.5					3	1600	100	10.5	4.8	3.5	13.2
AO4484		SO-8	Single	Inverter	N	No	No		40	20	10	8	1.7	1.1	10	12.5					3	1500	135	13.6	6.4	6.4	29.6
AO4443		SO-8	Single	Display	P	No	No		-40	20	-6	-5	3.1	2	42	63					-2.6	940	72	8.4	4.3	10.3	39
AO4485		SO-8	Single	Inverter	P	No	No		-40	20	-10	-8	1.7	1.1	15	20					-2.5	2500	180	18.6	8.6	9.4	55
AO4421		SO-8	Single	General Purpose	P	No	No		-60	20	-6.2	-5	3.1	2	40	50					-3	2417	120	22.7	9.2	9.8	44
AO4441		SO-8	Single	Display	P	No	No		-60	20	-4	-3.1	3.1	2	100	130					-3	930	35	8	3.2	8	31.5

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* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AO4886	SO-8	Dual	General Purpose	N	No	No		100	20	3.3	2.7	2	1.28	80	91					2.7	778	24	8.1	4.1	6	21	
AO4892	SO-8	Dual	General Purpose	N	No	No		100	20	4	3	2	1.3	68	94					2.8	415	3	3	1.5	4	15	
AO4830	SO-8	Dual	Load Switch	N	No	No		80	30	3.5	2.9	2	1.3	75					5	640	20	5.5	1.2	7.2	17		
AO4850	SO-8	Dual	Inverter	N	No	No		75	25	3.1	2.4	2	1.3	130	165				3	290	24	5.14*	1.18	4	14.4		
AO4826	SO-8	Dual	General Purpose	N	No	No		60	20	6.3	5	2	1.28	25	30				3	1920	116	24.2	14.4	7.6	28.9		
AO4828	SO-8	Dual	General Purpose	N	No	No		60	20	4.5	3.6	2	1.28	56	77				3	450	25	4.3	2.2	4.7	15.7		
AO4852	SO-8	Dual	Inverter	N	No	No		60	20	3	2.4	1.4	0.9	90	105				2.6	372	17	3.6	2	4.1	15		
AO4840	SO-8	Dual	General Purpose	N	No	No		40	20	6	5	2	1.3	30	38				3	516	43	4.3	1.4	6.2	16.2		
AO4882	SO-8	Dual	Inverter	N	No	No		40	20	8	6	2	1.3	19	27				2.4	415	11	3	1.1	4	15		
AO4884	SO-8	Dual	Inverter	N	No	No		40	20	10	8	2	1.3	13	16				2.7	1500	135	13.6	6.4	6.4	29.6		
AO4611	SO-8	Complementary	Inverter	N	No	No		60	20	6.3	5	2	1.28	25	30				3	1920	116	24.2	14.4	7.6	28.9		
AO4611	SO-8	Complementary	Inverter	P	No	No		-60	20	-4.9	-3.9	2	1.28	42	52				-3	2417	120	22.8	9.6	9.8	44		
AO4612	SO-8	Complementary	Inverter	N	No	No		60	20	4.5	3.6	2	1.28	56	77				3	450	25	4.3	2.2	4.7	15.7		
AO4612	SO-8	Complementary	Inverter	P	No	No		-60	20	-3.2	-2.6	2	1.28	105	135				-3	930	35	8	3.2	8	31.5		
AO4614B	SO-8	Complementary	Inverter	N	No	No		40	20	6	5	2	1.28	30	38				3	516	43	4.3	1.4	6.4	16.2		
AO4614B	SO-8	Complementary	Inverter	P	No	No		-40	20	-5	-4	2	1.28	45	63				-3	940	72	7.9	3.2	6.2	44.8		
AO4618	SO-8	Complementary	Inverter	N	Yes	No		40	20	8	6	2	1.3	19	27				3	422	11	3	0.8	4.5	16		
AO4618	SO-8	Complementary	Inverter	P	Yes	No		-40	20	-7	-5.5	2	1.3	23	30				-3	1870	155	8	6.2	10	38		
Ultra SO-8																											
AOL1482	Ultra SO-8	Single	Load Switch	N	No	No		100	20	28	20	75	37	37	42					2.7	1630	50	18	9	7	29	
AOL1240	Ultra SO-8	Single	General Purpose	N	No	No		40	20	69	54	125	62.5	3	4.4					2.3	3165	45.5	18	3.5	9	32	
AOL1242	Ultra SO-8	Single	General Purpose	N	No	No		40	20	69	54	68	34	5.2	7.9					2.3	1350	26	8	2.3	6	23	
AOL1454	Ultra SO-8	Single	Inverter	N	Yes	No		40	20	50	48	60	30	9	13					3	1600	100	10.5	4.8	6.5	33	
TO-220																											
AOT9N40	TO-220	Single	General Purpose	N	No	No		400	30	8	5	132		800						4.5	630	5.7	13.1*	4.8*	17	25	
AOT12N40	TO-220	Single	High Voltage	N	No	No		400	30	11	7	184		590						4.5	925	6.4	17*	5.7*	25	41	
AOT12N30	TO-220	Single	High Voltage	N	No	No		300	30	11.5	7.3	132		420						4.5	632	7	12.8*	4.3*	18	36	
AOT20N25	TO-220	Single	High Voltage	N	No	No		250	30	20	14	208		170						4.5	1028	11	20*	8*	27	70	
AOT254L	TO-220	Single	General Purpose	N	No	No		150	20	32	22.5	125	62.5	46	53					2.7	2150	4	12	3	9	29	
AOT2500L	TO-220	Single	General Purpose	N	No	No		150	20	152	107	375	187.5	6.5						3.5	6460	22	97*	17	18.5	67.5	
AOT290L	TO-220	Single	General Purpose	N	No	No		100	20	140	110	500	250	3.5						4.1	7180	42	90*	21	31	45	
AOT292L	TO-220	Single	General Purpose	N	No	No		100	20	105	82	300	150	4.5	5.3*					3.4	6775	32	90*	13.5*	20	48	
AOT296L	TO-220	Single	General Purpose	N	No	No		100	20	70	50	107	54	10	12.5*					3.4	2785	12	16.5	5	13	29	
AOT298L	TO-220	Single	General Purpose	N	No	No		100	20	58		100	50	14.5						4.1	1250	25	18	6*	7.5	15	
AOT410L	TO-220	Single	General Purpose	N	No	No		100	25	150	108	333	167	6.5	7.5*					4	6622	215	107*	40	28	43.5	
AOT412	TO-220	Single	General Purpose	N	No	No		100	25	60	44	150	75	15.8	19.4*					3.8	2680	100	45	15	19	27	
AOT414	TO-220	Single	General Purpose	N	No	No		100	25	43	31	115	58	25	31*					4	1770	55	28*	10	12	17	
AOT416	TO-220	Single	General Purpose	N	No	No		100	25	42	30	150	75	37	43					4	1180	36	19*	6.3	10	15	
AOT418L	TO-220	Single	General Purpose	N	No	No		100	25	105	82	333	167	10	12*					3.9	4334	131	69*	22*	21	38	
AOT1100L	TO-220	Single	High Voltage	N	No	No		100	20	130	92	500	250	12						3.8	4833	35	82*	19*	21	50	
AOT2910L	TO-220	Single	General Purpose	N	No	No		100	20	30	21	50	25	24	33					2.7	1190	7	7	2.5	7	20	
AOT2916L	TO-220	Single	General Purpose	N	No	No		100	20	23	16	41.5	20.5	34	42.5					2.7	870	3.5	5.5	2	7.5	23	
AOT2918L	TO-220	Single	General Purpose	N	No	No		100	20	90	70	267	133	7						3.9	2580	37	38*	12	17	30	
AOT280L	TO-220	Single	General Purpose	N	No	No		80	20	140	110	333	166	2.7	3.5*					3.4	11135	80	160*	28*	30	75	
AOT282L	TO-220	Single	General Purpose	N	No	No		80	20	105	82	272.5	136	3.5	5.2*					3.5	7765	66	58	21	24	55	
AOT284L	TO-220	Single	General Purpose	N	No	No		80	20	105	82	250	125	4.5	5.7*					3.3	5154	48	33.5	11.5	18	38	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AOT286L	TO-220	Single	General Purpose	N	No	No		80	20	70	55	167	83	6	7.9					3.3	3142	43	44.5*	8*	13.5	32	
AOT288L	TO-220	Single	General Purpose	N	No	No		80	20	46	36	93.5	46.5	9.2	12.5*					3.4	1871	14	26.5	4	11.5	21.5	
AOT480L	TO-220	Single	General Purpose	N	No	No		80	25	180	134	333	167	4.5	5.5*					4	6520	310	116*	38	31.5	46	
AOT482L	TO-220	Single	General Purpose	N	No	No		80	25	105	82	333	167	7.2	9*					3.7	4054	160	66.8*	20.2*	26	48	
AOT270AL	TO-220	Single	General Purpose	N	No	No		75	20	140	110	500	250	2.6	3*					3	10350	90	153*	35*	30	80	
AOT430	TO-220	Single	General Purpose	N	No	No		75	25	80	78	268	134	11.5						4	4700	180	*114	18	21	70	
AOT470	TO-220	Single	General Purpose	N	No	No		75	25	100	78	268	134	10.5						4	4700	180	114*	18	21	70	
AOT472	TO-220	Single	General Purpose	N	No	No		75	20	140	101	417	208	8.9						3.9	3753	54	96*	13	18	57	
AOT474	TO-220	Single	General Purpose	N	No	No		75	20	127	89	417	208	11.3						4	2805	36	49.6	14	15	42	
AOT260L	TO-220	Single	General Purpose	N	No	No		60	20	140	110	330	165	2.5	2.9*					3.2	11800	40	150*	15	30	74	
AOT262L	TO-220	Single	General Purpose	N	No	No		60	20	140	110	333	167	3	3.2*					3.2	8140	32	95*	5*	27	47	
AOT264L	TO-220	Single	General Purpose	N	No	No		60	20	140	110	333	167	3.2	3.5					3.2	6960	30	75*	5*	23	45	
AOT266L	TO-220	Single	General Purpose	N	No	No		60	20	140	110	268	134	3.5	4*					3.2	5650	20	65*	7*	21	36	
AOT460	TO-220	Single	General Purpose	N	No	No		60	20	85	85	268	134	7.5						4	3800	190	68	19	18	44	
AOT462L ⁽¹⁾	TO-220	Single	General Purpose	N	No	No		60	20	35	27	100	50	18						4	1840	80	27.8	6.6	12	38	
AOT1606L	TO-220	Single	Rugged Planar	N	No	No		60	20	178	126	417	208	6.3						3.7	3735	69	85	24	18	60	
AOT1608L	TO-220	Single	Rugged Planar	N	No	No		60	20	140	100	333	166	7.6						3.7	3069	56	69	21	18	47	
AOT2606L	TO-220	Single	General Purpose	N	No	No		60	20	72	56	115	57.5	6.5						3.5	4050	16.8	22	5	18	33	
AOT2608L	TO-220	Single	General Purpose	N	No	No		60	20	72	54	100	50	8						3.6	2995	10.5	38.5*	3.5*	15	25	
AOT2610L	TO-220	Single	General Purpose	N	No	No		60	20	55	39	75	37.5	10.7	13.5					2.5	2007	12.5	8.5	2.2	8.5	27	
AOT2618L	TO-220	Single	General Purpose	N	No	No		60	20	23	18	41.5	20.5	19	25					2.5	950	7	6	1.6	7.5	18	
AOT240L	TO-220	Single	General Purpose	N	No	No		40	20	105	82	176	88	2.9	3.7					2.2	3510	68	22	7	11	38	
AOT440	TO-220	Single	General Purpose	N	No	No		40	20	105	82	150	75	4.7	6					2.3	4666	269	36	17	15	52	
AOT1404L	TO-220	Single	Rugged Planar	N	No	No		40	20	220	157	417	208	4.2						3.7	3568	151	71	23	16	54	
TO-220F																											
AOTF20N40	TO-220F	Single	High Voltage	N	No	No		400	30	20	13	50		250						4.3	1898	15	37*	12*	44	96	
AOTF12N30	TO-220F	Single	High Voltage	N	No	No		300	30	11.5	7.3	36		420						4.5	632	7	12.8*	4.3*	18	36	
AOTF450L	TO-220F	Single	General Purpose	N	No	No		200	30	5.8	4.1	27		700						4.5	194	3.3	3.6	0.6	11	13	
AOTF256L	TO-220F	Single	General Purpose	N	No	No		150	20	12	8.5	33	16	85	100					2.8	1165	2.5	7	1.2	6.5	23	
AOTF454L	TO-220F	Single	General Purpose	N	No	No		150	20	13	8	41	16	94						4.6	820	22	15	4.4	10.5	14.5	
AOTF298L	TO-220F	Single	General Purpose	N	No	No		100	20	33	26	33	16	14.5						4.1	1250	25	19*	6*	7.5	15	
AOTF2910L	NEW	TO-220F	Single	General Purpose	N	No	No	100	20	22	15.5	27	13.5	24	33					2.7	1190	7	7	2.5	7	20	
AOTF2916L	TO-220F	Single	General Purpose	N	No	No		100	20	17	12	23.5	11.5	34	43					2.7	870	3.5	5.5	2	7.5	23	
AOTF2918L	TO-220F	Single	General Purpose	N	No	No		100	20	58	45	41	20	7						3.9	2580	37	38*	12	17	30	
AOTF4126	TO-220F	Single	General Purpose	N	No	No		100	25	27	19	42	21	24	30					4	1770	55	28*	10*	12	17	
AOTF288L	TO-220F	Single	General Purpose	N	No	No		80	20	43	30	35.5	17.5	9.2	12.5*					3.4	1871	14	26.5	4	11.5	21.5	
AOTF472	TO-220F	Single	General Purpose	N	No	No		75	20	53	37.5	57.5	29	8.9						3.9	3753	54	96*	13	18	57	
AOTF474	TO-220F	Single	General Purpose	N	No	No		75	20	47	33	57.5	29	11.3						4	2805	36	49.6	14	15	42	
AOTF260L	TO-220F	Single	General Purpose	N	No	No		60	20	92	66.5	46.5	23.5	2.6	3*					3.2	11800	40	150*	15	30	74	
AOTF266L	TO-220F	Single	General Purpose	N	No	No		60	20	78	55	45.5	22.5	3.5	4*					3.2	5650	20	65*	7*	21	36	
AOTF2606L	TO-220F	Single	General Purpose	N	No	No		60	20	54	38	36.5	18	6.5						3.5	4050	16.8	22	5	18	33	
AOTF2610L	TO-220F	Single	General Purpose	N	No	No		60	20	35	25	31	15.5	10.7	13.5					2.5	2007	12.5	8.5	2.2	8.5	27	
AOTF2618L	TO-220F	Single	General Purpose	N	No	No		60	20	22	16	23.5	11.5	19	25					2.5	950	7	6	1.6	7.5	18	
AOTF240L	TO-220F	Single	General Purpose	N	No	No		40	20	85	60	41	20	2.9	3.7					3.2	3510	68	22	7	11	38	
AOTF4185	TO-220F	Single	General Purpose	P	No	No		-40	20	-34	-27	33	16	16	20					-2.5	2550	190	18.6	8.6	9.4	55	
AOTF409	TO-220F	Single	General Purpose	P	No	No		-60	20	-24	-17	43	21	40	54					-2.4	2461	120	19.7	8.9	12	38	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V								1.2V
TO-247																										
AOK40N30	TO-247	Single	General Purpose	N	No	No		300	30	40	25	357		85						4.1	2718	31	60*	21*	54	152
AOK60N30	TO-247	Single	General Purpose	N	No	No		300	30	60	40	658		56						4.1	4438	38	88*	28*	88	224
TO-251A																										
AOI5N40	TO-251A	Single	High Voltage	N	No	No		400	30	4.2	2.8	78		1600						4.5	331	3	6.9*	2.3*	16.5	24
AOI468	TO-251A	Single	General Purpose	N	No	No		300	30	11.5	8.3	150		420						4.5	632	7	12.8*	4.3*	18	36
AOI8N25	TO-251A	Single	General Purpose	N	No	No		250	30	8	5	78		560						4.3	306	3.2	6*	1.5*	14	23
AOI478	TO-251A	Single	General Purpose	N	No	No		100	20	11	8	45	23	140	152					2.8	445	16	5.1	2.4	8	17
AOI482	TO-251A	Single	General Purpose	N	No	No		100	20	32	22	100	50	37	42					2.7	1630	50	18	9	7	29
AOI4126	TO-251A	Single	General Purpose	N	No	No		100	25	43	30	100	50	24	30*					4	1770	55	28*	10	12	17
AOI4286	TO-251A	Single	General Purpose	N	No	No		100	20	14	10	30	15	68	92					2.9	390	3	2.8	1.2	6	18
AOI442	TO-251A	Single	General Purpose	N	No	No		60	20	37	26	60	30	20	25					2.7	1920	116	24.2	14.4	7.4	28.2
AOI444	TO-251A	Single	General Purpose	N	No	No		60	20	12	9	20	10	60	85					3	450	27	3.8	1.9	4.2	16
AOI4130	TO-251A	Single	General Purpose	N	No	No		60	20	30	20	52	25	24	30					2.8	1582	67	13.4	7.2	7.5	33
AOI4184	TO-251A	Single	Load Switch	N	No	No		40	20	50	40	50	20	8	11					3	1500	135	27.2	6.4	6.4	29.6
AOI4185	TO-251A	Single	General Purpose	N	No	No		-40	20	-40	-31	62.5	31	15	20					-3	2550	190	18.6	8.6	9.4	55
AOI409	TO-251A	Single	General Purpose	N	No	No		-60	20	-26	-18	60	30	40	55					-2.4	2977	153	22.2	10	12	38
TO-252																										
AOD3N40	TO-252	Single	High Voltage	N	No	No		400	30	2.6	1.6	50		3100						4.5	186	2.1	4.2*	1*	14	18
AOD5N40	TO-252	Single	High Voltage	N	No	No		400	30	4.2	2.8	78		1600						4.5	331	3	6.9*	2.3*	16.5	24
AOD5T40P	NEW	TO-252	Single	High Voltage	N	No	No	400	30	3.9	2.5	52		1450						5	273	1.5	5*	1.4*	17	18
AOD9N40	TO-252	Single	General Purpose	N	No	No		400	30	8	5	125		860						4.5	962	8	19.5*	7.1*	24	55
AOD468	TO-252	Single	General Purpose	N	No	No		300	30	11.5	8.3	150	1	420						4.5	632	7	12.8*	4.3*	18	36
AOD458	TO-252	Single	General Purpose	N	No	No		250	30	14	10	150		280						4.5	637	7.1	12	4.6	21	29
AOD8N25	TO-252	Single	High Voltage	N	No	No		250	30	8	5	78		560						4.3	306	3.2	6*	1.5*	14	23
AOD450	TO-252	Single	Inverter	N	No	No		200	30	3.8	2.7	25	12.5	700						6	215	7.2	3.82*	1.47	6.3	10.5
AOD2210	TO-252	Single	General Purpose	N	No	No		200	20	18	13	100	50	105						2.5	2065	3.8	12	3	8	30
AOD4504	TO-252	Single	General Purpose	N	No	No		200	20	6	4.5	42.5	21	400						3.7	328	8	44	30	6	18
AOD254	TO-252	Single	General Purpose	N	No	No		150	20	28	20	100	50	46	53					2.7	2150	4	12	3	9	29
AOD256	TO-252	Single	General Purpose	N	No	No		150	20	19	13.5	83	41.5	85	100					2.8	1165	2.5	7	1.2	6.5	23
AOD2544	TO-252	Single	General Purpose	N	No	No		150	20	23	16	75	37.5	54	66					2.7	675	4	5.5	2.5	6	20
AOD4454	TO-252	Single	General Purpose	N	No	No		150	20	20	14	100	50	94	110*					4.6	820	22	15*	4.4	10.5	14.5
AOD464	TO-252	Single	General Purpose	N	No	No		105	25	40	28	100	50	28						4	2038	85	38.5*	10	12.7	31.5
AOD478	TO-252	Single	General Purpose	N	No	No		100	20	11	8	45	23	140	152					2.8	445	16	5.1	2.4	8	17
AOD482	TO-252	Single	General Purpose	N	No	No		100	20	32	22	100	50	37	42					2.7	1630	50	18	9	7	29
AOD2908	TO-252	Single	General Purpose	N	No	No		100	20	52	36	75	37	13.5						4.1	1250	25	19*	6*	7.5	15
AOD2910	TO-252	Single	General Purpose	N	No	No		100	20	31	21.5	53.5	26.5	24	33					2.7	1190	7	7	2.5	7	20
AOD2916	TO-252	Single	General Purpose	N	No	No		100	20	25	18	50	25	34	43.5					2.7	870	3.5	5.5	2	7.5	23
AOD2922	TO-252	Single	General Purpose	N	No	No		100	20	7	5	17	8.5	140	176					2.7	250	2.5	1.8	0.8	5	19
AOD4124	TO-252	Single	SMPS	N	No	No		100	25	54	38	150	75	21	25*					4	2006	58	31*	11*	14	21
AOD4126	TO-252	Single	General Purpose	N	No	No		100	25	43	30	100	50	24	30*					4	1770	55	28*	10	12	17
AOD4286	TO-252	Single	General Purpose	N	No	No		100	20	14	10	30	15	68	92					2.9	390	3	2.8	1.2	6	18
AOD2810	TO-252	Single	General Purpose	N	No	No		80	20	46	36	100	50	8.5	12*					3.4	1871	14	26.5*	4*	11.5	21.5
AOD2816	TO-252	Single	General Purpose	N	No	No		80	20	35	27	53.5	26.5	15	29*					3.5	1109	9	5	3.2	8	17
AOD4180	TO-252	Single	General Purpose	N	No	No		80	25	54	42	150	50	14	18*					4	2003	77	31.2*	11.4*	14	22
AOD4182	TO-252	Single	General Purpose	N	No	No		80	25	53	38	100	50	15.5	20*					4.2	1670	72	28*	8	12	20

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AOD446	TO-252	Single	General Purpose	N	No	No		75	25	10	10	20	10	140	165					3	293	20	5.2*	1.34	4.6	14.7	
AOD474	TO-252	Single	General Purpose	N	No	No		75	20	10	7	28.5	14.5	130	155					2.4	280	13	3	1.5	5	16	
AOD474A	TO-252	Single	General Purpose	N	No	No		75	16	10	7	28.5	14.5	130	155					1.6	280	13	3	1.5	5	16	
AOD474B	TO-252	Single	General Purpose	N	No	No		75	20	10	7	28.5	14.5	132	155					2.3	282	12	3.2	1.7	5	16	
AOD442	TO-252	Single	General Purpose	N	No	No		60	20	38	27	60	30	20	25					3	1920	116	24.2	14.4	7.4	28.2	
AOD444	TO-252	Single	General Purpose	N	No	No		60	20	12	9	20	10	60	85					3	450	27	3.8	1.9	4.2	16	
AOD2606	TO-252	Single	General Purpose	N	No	No		60	20	46	36	150	75	6.8						3.5	4050	16.8	22	5	18	33	
AOD2610	TO-252	Single	General Purpose	N	No	No		60	20	46	36	71.5	35.5	10.7	13.5					2.5	2007	12.5	8.5	2.2	8.5	27	
AOD4130	TO-252	Single	General Purpose	N	No	No		60	20	30	20	52	25	24	30					2.8	1582	67	13.4	7.2	7.5	33	
AOD240	TO-252	Single	SMPS	N	No	No		40	20	70	55	150	75	3	3.9					2.2	3510	68	22	7	11	38	
AOD242	TO-252	Single	General Purpose	N	No	No		40	20	54	42	53.5	26.5	5.8	8.2					2.3	1350	26	8	2.3	6	23	
AOD454A	TO-252	Single	General Purpose	N	No	No		40	20	20	15	37	18	30	40					3	516	43	8.3	1.6	6.4	16.2	
AOD486A	TO-252	Single	Inverter	N	Yes	No		40	20	50	36	50	25	9.8	13					3	1600	100	10.5	4.8	6.5	33	
AOD4184	TO-252	Single	Inverter	N	No	No		40	20	50	40	50	20	8	11					3	1500	135	13.6	6.4	6.4	29.6	
AOD4184A	TO-252	Single	Inverter	N	No	No		40	20	50	40	50	25	7	9.5					2.6	1500	135	14	6	6	30	
AOD4186	TO-252	Single	Inverter	N	No	No		40	20	35	27	50	25	15	19					2.7	980	80	9	4.5	6	26	
AOD413A	TO-252	Single	General Purpose	P	No	No		-40	20	-12	-12	50	25	44	66					-3	900	68	7.2	3.5	6.2	44.8	
AOD4185	TO-252	Single	General Purpose	P	No	No		-40	20	-40	-31	62.5	31	15	20					-3	2550	190	18.6	8.5	9.4	55	
AOD4189	TO-252	Single	Inverter	P	No	No		-40	20	-40	-28	62.5	31	22	29					-3	1870	155	7.9	6.2	10	38	
AOD407	TO-252	Single	General Purpose	P	No	No		-60	20	-12	-10	50	25	115	150					-3	987	46	7.4	3.5	9	25	
AOD409	TO-252	Single	General Purpose	P	No	No		-60	20	-26	-18	60	30	40	55					-2.4	2977	153	22.2	10	12	38	
AOD603A	TO-252	Complementary	Inverter	N	No	No		60	20	12	9.5	27	13.5	60	85					3	450	27	3.8	1.9	4.2	16	
AOD603A	TO-252	Complementary	Inverter	P	No	No		-60	20	-12	-9.5	42.5	21.5	115	150					-3	960	38	7.4	3.5	9	25	
AOD609	TO-252	Complementary	Inverter	N	No	No		40	20	12	12	27	14	30	40					3	516	43	8.3	1.6	6.4	16.2	
AOD609	TO-252	Complementary	Inverter	P	No	No		-40	20	-12	-12	30	15	45	66					-3	900	68	7.2	3.5	6.2	44.8	
TO-262																											
AOW2500	TO-262	Single	General Purpose	N	No	No		150	20	152	107	375	187.5	6.2						3.5	6460	22	97*	17	18.5	67.5	
AOW298	TO-262	Single	General Purpose	N	No	No		100	20	58	41	100	50	14.5						4.1	1250	25	19*	6*	7.5	15	
AOW410	TO-262	Single	General Purpose	N	No	No		100	25	150	108	333	167	6.5	7.5*					4	6622	215	107*	40	28	43.5	
AOW418	TO-262	Single	General Purpose	N	No	No		100	25	105	82	333	167	10	12*					3.9	4334	131	69*	22*	21	38	
AOW2918	TO-262	Single	General Purpose	N	No	No		100	20	90	70	267	133	7						3.9	2580	37	38*	12	17	30	
AOW284	NEW	TO-262	Single	General Purpose	N	No	No	80	20	105	82	250	125	4.3						3.3	5154	48	71*	11.5*	18	38	
AOW480	TO-262	Single	General Purpose	N	No	No		80	25	180	134	333	167	4.5	5.5*					4	6520	310	116*	38*	31.5	46	
AOW482	TO-262	Single	General Purpose	N	No	No		80	25	105	82	333	167	7.2	9*					3.7	4054	160	66.8*	20.2*	26	48	
TO-262F																											
AOWF412	TO-262F	Single	General Purpose	N	No	No		100	25	30	20	33	16	15.8						3.8	2680	100	45	15	19	27	
AOWF2606	TO-262F	Single	General Purpose	N	No	No		60	30	51	36.5	33.3	16.7	6.5						3.8	4050	16.8	22	5	18	33	
AOWF240L	TO-262F	Single	General Purpose	N	No	No		40	20	83	59	33.3	16.7	2.6	3.5					2.2	3510	68	22	7	11	38	
TO-263																											
AOB254L	TO-263	Single	General Purpose	N	No	No		150	20	32	22.6	125	62.5	46	53					2.7	2150	4	12	3	9	29	
AOB256L	TO-263	Single	General Purpose	N	No	No		150	20	19	13.5	83	41.5	85	100					2.8	1165	2.5	7	1.2	6.5	23	
AOB2500L	TO-263	Single	General Purpose	N	No	No		150	20	152	107	375	187.5	6.2						3.5	6460	22	97*	17	18.5	67.5	
AOB290L	TO-263	Single	General Purpose	N	No	No		100	20	140	440	500	250	3.2						4.1	7180	42	90*	21	31	45	
AOB292L	TO-263	Single	General Purpose	N	No	No		100	20	105	82	300	150	4.1	4.9*					3.4	6775	32	90*	13.5*	20	48	
AOB296L	TO-263	Single	General Purpose	N	No	No		100	20	70	50	107	54	9.7	12.2*					3.4	2785	12	16.5	5	13	29	
AOB298L	TO-263	Single	General Purpose	N	No	No		100	20	58	41	100	50	14.5						4.1	1250	25	19*	6*	7.5	15	

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* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V							
AOB410L	TO-263	Single	General Purpose	N	No	No		100	25	150	108	333	167	6.2	7.2*					4	6622	215	107*	40	28	43.5
AOB412L	TO-263	Single	General Purpose	N	No	No		100	25	60	44	150	75	15.5	19.1*					3.8	2680	100	45*	15	19	27
AOB414	TO-263	Single	General Purpose	N	No	No		100	25	51	36	150	75	25	31*					4	1770	55	28*	10	12	17
AOB416	TO-263	Single	General Purpose	N	No	No		100	25	45	32	150	75	36	43					4	1180	36	20*	6.3	10	15
AOB418L	TO-263	Single	General Purpose	N	No	No		100	25	105	82	333	167	9.7	11.7*					3.9	4334	131	69*	22*	21	38
AOB1100L	TO-263	Single	High Voltage	N	No	No		100	20	130	92	500	250	11.7						3.8	4833	35	82*	19*	21	50
AOB2910L	TO-263	Single	General Purpose	N	No	No		100	20	30	21	50	25	23.5	32.5					2.7	1190	7	7	2.5	7	20
AOB2918L	TO-263	Single	General Purpose	N	No	No		100	20	90	70	267	133	7						3.9	2580	37	38*	12	17	30
AOB280L	TO-263	Single	General Purpose	N	No	No		80	20	140	110	333	166	2.2	3.1*					3.4	11135	80	160*	28*	30	75
AOB282L	TO-263	Single	General Purpose	N	No	No		80	20	105	82	272.5	136	3.2	4.9*					3.5	7765	66	58	21	24	55
AOB284L	TO-263	Single	General Purpose	N	No	No		80	20	105	82	250	125	4.3	5.5*					3.3	5154	48	33.5	11.5	18	38
AOB286L	TO-263	Single	General Purpose	N	No	No		80	20	70	55	167	83	5.7	7.6*					3.3	3142	43	44.5*	8*	13.5	32
AOB288L	TO-263	Single	General Purpose	N	No	No		80	20	46	36	93.5	46.5	8.9	12.2*					3.4	1871	14	26.5	4	11.5	21.5
AOB480L	TO-263	Single	SMPS	N	No	No		80	25	180	134	333	167	4.2	5.2*					4	6520	310	116*	38	31.5	46
AOB482L	TO-263	Single	General Purpose	N	No	No		80	25	105	82	333	167	6.9	8.7*					3.7	4054	160	66.8*	20.2*	26	48
AOB270AL	TO-263	Single	General Purpose	N	No	No		75	20	140	110	500	250	2.4	3*					3.3	10830	97	147*	30*	30	66
AOB470L	TO-263	Single	General Purpose	N	No	No		75	25	100	78	268	134	10.2						4	4700	180	114*	18	21	70
AOB260L	TO-263	Single	General Purpose	N	No	No		60	20	140	110	330	165	2.2	2.5*					3.2	11800	40	150*	15	30	74
AOB262L	TO-263	Single	General Purpose	N	No	No		60	20	140	110	333	167	2.8	3*					3.2	8140	32	95*	5*	27	47
AOB264L	TO-263	Single	General Purpose	N	No	No		60	20	140	110	333	167	3	3.3					3.2	6960	30	78*	5*	23	45
AOB266L	TO-263	Single	General Purpose	N	No	No		60	20	140	110	268	134	3.2	3.8*					3.2	5650	20	65*	7*	21	36
AOB462L	TO-263	Single	General Purpose	N	No	No		60	20	35	27	100	50	18						4	1840	80	27.8	6.6	12	38
AOB1606L	TO-263	Single	Rugged Planar	N	No	No		60	20	178	126	417	208	6						3.7	3735	69	85	24	18	60
AOB1608L	TO-263	Single	Rugged Planar	N	No	No		60	20	140	100	333	166	7.3						3.7	3069	56	69	21	18	47
AOB2606L	TO-263	Single	General Purpose	N	No	No		60	30	72	56	115	57.5	6.2						3.5	4050	16.8	22	5	18	33
AOB2608L	TO-263	Single	Rugged Planar	N	No	No		60	20	72	54	100	50	7.6						3.6	2995	10.5	38.5*	3.5*	15	25
AOB2618L	TO-263	Single	General Purpose	N	No	No		60	20	23	18	41.5	20.5	19	25					2.5	950	7	6	1.6	7.5	18
AOB240L	TO-263	Single	General Purpose	N	No	No		40	20	105	82	176	88	2.6	3.5					2.2	3510	68	22	7	11	38
AOB442	TO-263	Single	SMPS	N	No	No		40	20	105	82	150	75	4.2	5.3					2.3	4666	269	36	17	15	52
AOB1404L	TO-263	Single	Rugged Planar	N	No	No		40	20	220	157	417	208	3.9						3.7	3568	151	71	23	16	54
AOB4184	TO-263	Single	Load Switch	N	No	No		40	20	50	24	50	25	10	13					3	1500	135	13.6	6.4	6.4	29.6
AOB409L	TO-263	Single	General Purpose	P	No	No		-60	20	-31.5	-22	83.3	41.6	38	50					-2.4	2461	120	19.7	8.9	12	38
AOB411L	TO-263	Single	General Purpose	P	No	No		-60	20	-78	-55	187	93	16.5	22					-2.5	5330	234	40	18	17.5	83.5

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* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)		
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V								1.2V	
SOT-23																											
AO3160	SOT-23A	Single	High Voltage	N	No	No		600	20	0.04	0.03	1.39	0.89	500000	600000					3.2	10	0.7	1*	0.52*	4	12.5	
AO3162	SOT-23-3	Single	High Voltage	N	No	No		600	30	0.034	0.028	1.39	0.89	500000						4.1	4.2	0.05	0.1*	0.05*	13.8	39.2	
DFN 8x8																											
AOV11S60	DFN 8x8	Single	High Voltage	N	No	No		600	30	8	7	156		500						4.1	545	1.42	11*	3.8*	20	59	
AOV15S60	DFN 8x8	Single	High Voltage	N	No	No		600	30	12	9.4	208		360						3.8	717	1.3	15.6*	6*	24.5	84	
AOV20S60	DFN 8x8	Single	High Voltage	N	No	No		600	30	18	13	278		250						4.1	1038	2.1	20*	7.6*	27.5	87.5	
TO-220																											
AOT500	NEW	TO-220	Single	General Purpose	N	No	No	Clamped	Clamped	80	57	115	58	5.3						3	4735	340	34	15	25	150	
AOT502		TO-220	Single	General Purpose	N	No	No	Clamped	Clamped	60	41	79	39	11.5						2.7	1205	109	23.4*	7	13.5	63	
AOT3N100		TO-220	Single	High Voltage	N	No	No	1000	30	2.8	1.8	132		6000						4.5	690	5	15	4.7	22	40	
AOT5N100		TO-220	Single	High Voltage	N	No	No	1000	30	4	2.5	195		4200						4.5	950	6	19*	6.5*	27	50	
AOT8N80		TO-220	Single	High Voltage	N	No	No	800	30	7.4	4.6	245		1630						4.5	1375	11	26	9.1	35	69	
AOT7N70		TO-220	Single	High Voltage	N	No	No	700	30	7	4.2	198		1800						4.5	978	7	20.5*	7.9*	23	53	
AOT9N70		TO-220	Single	High Voltage	N	No	No	700	30	9	5.8	236		1200						4.5	1357	7.4	28.5*	11.6*	35	76	
AOT11N70		TO-220	Single	High Voltage	N	No	No	700	30	11	7.2	271		870						4.5	1793	10.5	37.5*	15*	42	103	
AOT7N65		TO-220	Single	High Voltage	N	No	No	650	30	7	4.5	192		1560						4.5	887	7	19*	8.3*	22	54	
AOT7S65		TO-220	Single	High Voltage	N	No	No	650	30	7	5	104		650						4	434	1	9.2*	2.7*	21	55	
AOT8N65		TO-220	Single	High Voltage	N	No	No	650	30	8	5.2	208		1150						4.5	1165	9	23.5*	9.5*	26	65	
AOT10N65		TO-220	Single	High Voltage	N	No	No	650	30	10	6.2	250		1000						4.5	1369	10	27.7*	11.3*	30	74	
AOT11S65		TO-220	Single	High Voltage	N	No	No	650	30	11	8	198		399						4	646	1.1	13.2*	4.3*	25	77	
AOT12N65		TO-220	Single	High Voltage	N	No	No	650	30	12	7.7	278		720						4.5	1792	11.5	39.8*	16.8	36	120	
AOT15S65		TO-220	Single	High Voltage	N	No	No	650	30	15	10	208		290						4	841	1.1	17.2*	5.6*	27	90	
AOT25S65		TO-220	Single	High Voltage	N	No	No	650	30	25	16	357		190						4	1278	1.4	26.4*	9.5*	29	112	
AOT1N60		TO-220	Single	High Voltage	N	No	No	600	30	1.3	0.9	41.7		9000						4.5	130	1.8	6.1	3.1	10	20	
AOT2N60 ⁽¹⁾		TO-220	Single	High Voltage	N	No	No	600	30	2	1.7	74		4400						4.5	270	2.8	9.5	4.7	17.2	27	
AOT3N60 ⁽¹⁾		TO-220	Single	High Voltage	N	No	No	600	30	2.5	1.9	83		3500						4.5	304	3.3	9.9	4.6	17	24	
AOT4N60		TO-220	Single	High Voltage	N	No	No	600	30	4	2.7	104		2200						4.5	511	4.4	15	7.6	20.2	36	
AOT4S60		TO-220	Single	High Voltage	N	No	No	600	30	4	3.7	83		900						4.1	263	0.75	6*	1.8*	18	40	
AOT5N60		TO-220	Single	High Voltage	N	No	No	600	30	5	3.4	132		1800						4.5	583	5.3	16.8	8.5	21	35	
AOT7N60		TO-220	Single	High Voltage	N	No	No	600	30	7	4.8	192		1200						4.5	861	6.6	23	11.2	25	51.5	
AOT7S60		TO-220	Single	High Voltage	N	No	No	600	30	7	5	104		600						3.9	372	1.2	8.2*	2.8*	19	50	
AOT8N60 ⁽¹⁾		TO-220	Single	High Voltage	N	No	No	600	30	8	6.2	208		900						4.5	1140	7.8	28.4	13.4	30	69	
AOT10N60		TO-220	Single	High Voltage	N	No	No	600	30	10	7.2	250		750						4.5	1320	9.3	31.1	14.4	28	76	
AOT10T60P	NEW	TO-220	Single	High Voltage	N	No	No	600	30	10	6.6	208		700						5	1595	11	26*	8.2*	42	52	
AOT11C60 ⁽¹⁾		TO-220	Single	High Voltage	N	No	No	600	30	11	9	278		400						5	2000	2.8	30*	7*	50	70	
AOT11N60		TO-220	Single	High Voltage	N	No	No	600	30	11	8	272		650						4.5	1656	11.2	30.6*	9.6*	39	92	
AOT11S60		TO-220	Single	High Voltage	N	No	No	600	30	11	8	178		399						4.1	545	1.42	11*	3.8*	20	59	
AOT12N60		TO-220	Single	High Voltage	N	No	No	600	30	12	9.7	278		550						4.5	1751	13	40	17.9	39	122	
AOT12N60FD		TO-220	Single	High Voltage	N	No	No	600	30	12	8	278		650						4	1659	15.8	41*	19*	34	120	
AOT15S60		TO-220	Single	High Voltage	N	No	No	600	30	15	10	208		290						3.8	717	1.3	15.6*	6*	24.5	84	
AOT20C60 ⁽¹⁾		TO-220	Single	High Voltage	N	No	No	600	30	20	11	463		250						5	3440	5	52*	14*	74	100	
AOT20N60		TO-220	Single	High Voltage	N	No	No	600	30	20	12	417		370						4.5	3061	22.8	61*	24*	57	128	
AOT20S60		TO-220	Single	High Voltage	N	No	No	600	30	20	14	266		199						4.1	1038	2.1	19.8*	7.6*	27.5	87.5	
AOT27S60		TO-220	Single	High Voltage	N	No	No	600	30	27	17	357		160						4	1294	2.3	26*	8.8*	31	99	
AOT42S60		TO-220	Single	High Voltage	N	No	No	600	30	37	23	417		109						3.8	2154	2.7	40*	11.9*	38.5	136	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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 _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AOT3N50	TO-220	Single	High Voltage	N	No	No		500	30	3	1.9	74		3000						4.5	276	2.6	6.7	2.7	11	20.5	
AOT5N50	TO-220	Single	High Voltage	N	No	No		500	30	5	3.3	104		1500						4.5	517	4.9	15.5	7.2	14.5	34.5	
AOT8N50	TO-220	Single	High Voltage	N	No	No		500	30	8	6	192		850						4.5	868	7.8	23.6	10.6	19.5	51.5	
AOT9N50	TO-220	Single	High Voltage	N	No	No		500	30	9	6	192		850						4.5	868	7.8	23.6*	10.6*	19.5	51.5	
AOT12N50	TO-220	Single	High Voltage	N	No	No		500	30	12	8.4	250		520						4.5	1361	12.6	29.1	20.1	29	82	
AOT13N50	TO-220	Single	High Voltage	N	No	No		500	30	13	8.5	250		510						4.5	1361	12.6	30.7*	13*	29	82	
AOT14N50	TO-220	Single	High Voltage	N	No	No		500	30	14	11	278		380						4.5	1914	16	42.8	20.3	44	92	
AOT14N50FD	TO-220	Single	High Voltage	N	No	No		500	30	14	9.6	278		470						4	1654	14.5	38.8*	17.5*	32	104	
AOT16N50	TO-220	Single	High Voltage	N	No	No		500	30	16	11	278		370						4.5	1914	16	42.8*	20.3*	44	92	
AOT22N50	TO-220	Single	High Voltage	N	No	No		500	30	22	15	417		260						4.5	3086	24	69*	24*	60	124	
AOT29S50	TO-220	Single	High Voltage	N	No	No		500	30	29	18	357		150						3.9	1312	2.5	26.6*	9.2*	28	103	
TO-220F																											
AOTF3N100	TO-220F	Single	High Voltage	N	No	No		1000	30	2.8	1.8	38		6000						4.5	690	5	15	4.7	22	40	
AOTF5N100	TO-220F	Single	High Voltage	N	No	No		1000	30	4	2.5	42		4200						4.5	950	6	19*	6.5*	27	50	
AOTF3N90	TO-220F	Single	High Voltage	N	No	No		900	30	2.4	1.5	35		6700						4.5	444	3.3	2.7*	4.1*	19	42	
AOTF4N90	TO-220F	Single	High Voltage	N	No	No		900	30	4	2.5	37		3600						4.5	728	5.5	18.4*	8*	22	43	
AOTF6N90	TO-220F	Single	High Voltage	N	No	No		900	30	6	3.9	50		2200						4.5	1196	7.8	29*	13*	30	70	
AOTF9N90	TO-220F	Single	High Voltage	N	No	No		900	30	9	6	50		1300						4.5	2130	14	9.5*	20.5*	45	116	
AOTF10N90 ⁽¹⁾	TO-220F	Single	High Voltage	N	No	No		900	30	10	7	50		980						4.5	2360	18	13*	27*	64	155	
AOTF3N80	TO-220F	Single	High Voltage	N	No	No		800	30	2.8	1.8	35		4800						4.5	510	3.7	10*	2.9*	21	34	
AOTF8N80	TO-220F	Single	High Voltage	N	No	No		800	30	7.4	4.6	50		1630						4.5	1375	11	26	9.1	35	69	
AOTF7N70	TO-220F	Single	High Voltage	N	No	No		700	30	7	4.2	38.5		1800						4.5	978	7	20.5*	7.9*	23	53	
AOTF9N70	TO-220F	Single	High Voltage	N	No	No		700	30	9	5.8	50		1200						4.5	1357	7.4	28.5*	11.6*	35	76	
AOTF11N70	TO-220F	Single	High Voltage	N	No	No		700	30	11	7.2	50		870						4.5	1793	10.5	37.5*	15*	42	103	
AOTF7N65	TO-220F	Single	High Voltage	N	No	No		650	30	7	4.5	38.5		1500						5	887	7	19*	8.3*	22	54	
AOTF7S65	TO-220F	Single	High Voltage	N	No	No		650	30	7	5	25		650						4	434	17.5	9.2*	2.7*	21	55	
AOTF8N65	TO-220F	Single	High Voltage	N	No	No		650	30	8	5.2	50		1150						5	1165	9	23.5*	9.5*	26	65	
AOTF10N65	TO-220F	Single	High Voltage	N	No	No		650	30	10	6.2	50		1000						5	1369	10	27.7*	11.3*	30	74	
AOTF11S65	TO-220F	Single	High Voltage	N	No	No		650	30	11	8	39		399						4	646	1.1	13.2*	4.3*	25	77	
AOTF12N65	TO-220F	Single	High Voltage	N	No	No		650	30	12	7.7	50		720						5	1792	11.5	39.8*	16.8	36	120	
AOTF15S65	TO-220F	Single	High Voltage	N	No	No		650	30	15	10	50		290						4	841	1.1	17.2*	5.3*	27	90	
AOTF18N65	TO-220F	Single	High Voltage	N	No	No		650	30	18	12	50		400						4.5	3027	22	56*	19.6*	54	149	
AOTF25S65	TO-220F	Single	High Voltage	N	No	No		650	30	25	16	50		190						4	1278	1.4	26.4*	9.5*	29	112	
AOTF11N62	TO-220F	Single	High Voltage	N	No	No		620	30	11	8	50		650						4.5	1656	11.2	30.6*	9.6*	39	92	
AOTF2N60 ⁽¹⁾	TO-220F	Single	High Voltage	N	No	No		600	30	2	1.6	31		4400						5	270	2.8	9.5	4.7	17.2	27	
AOTF4N60	TO-220F	Single	High Voltage	N	No	No		600	30	4	2.5	35		2200						4.5	511	4.4	15	7.6	20.2	36	
AOTF4S60	TO-220F	Single	High Voltage	N	No	No		600	30	4	3	83		900						4.1	263	0.75	6*	1.8*	18	40	
AOTF4T60P	NEW	TO-220F	Single	High Voltage	N	No	No	600	30	4	2.5	35		2100						5	522	2	8.3*	1.9*	21	25	
AOTF7N60	TO-220F	Single	High Voltage	N	No	No		600	30	7	4.4	38.5		1200						5	861	6.6	23.2	11.2	25	51.5	
AOTF7N60FD	TO-220F	Single	High Voltage	N	No	No		600	30	7	4.4	192		1450						4.2	826	7.9	20*	7.7*	24	56	
AOTF7S60	TO-220F	Single	High Voltage	N	No	No		600	30	7	5	34		600						3.9	372	1.2	8.2*	2.8*	19	50	
AOTF7T60 ⁽¹⁾	TO-220F	Single	High Voltage	N	No	No		600	30	7	5	38		1100						5	962	6.3	16*	4*	27	38	
AOTF7T60P	NEW	TO-220F	Single	High Voltage	N	No	No	600	30	7	5	38		1100						5	965	6.2	17*	5.1*	30	34	
AOTF8N60 ⁽¹⁾	TO-220F	Single	High Voltage	N	No	No		600	30	8	5	60		900						5	1140	7.8	28.4	13.4	30	69	
AOTF10N60	TO-220F	Single	High Voltage	N	No	No		600	30	10	6.4	60		750						5	1320	9.3	31.1	14.4	28	76	
AOTF10T60 ⁽¹⁾	TO-220F	Single	High Voltage	N	No	No		600	30	10	7.2	50		700						5	1346	3.8	23*	6.7*	37	53	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)	
										25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
AOTF10T60P	NEW	TO-220F	Single	High Voltage	N	No	No	600	30	10	6.6	43		700						5	1595	11	26*	8.2*	42	52	
AOTF11C60 ⁽¹⁾		TO-220F	Single	High Voltage	N	No	No	600	30	11	9	50		400						5	2010	2.4	30*	7*	50	70	
AOTF11N60		TO-220F	Single	High Voltage	N	No	No	600	30	11	8	50		650						4.5	1656	11.2	30.6*	9.6*	39	92	
AOTF11S60		TO-220F	Single	High Voltage	N	No	No	600	30	11*	8*	38		399						4.1	545	1.42	11*	3.8*	20	59	
AOTF12N60		TO-220F	Single	High Voltage	N	No	No	600	30	12	9.7	60		550						4.5	1751	13	40.5	17.9	39	122	
AOTF12N60FD		TO-220F	Single	High Voltage	N	No	No	600	30	12	8	50		650						4	1659	15.8	41*	19*	34	120	
AOTF12T60 ⁽¹⁾		TO-220F	Single	High Voltage	N	No	No	600	30	12*	9*	50		520						5	2028	13	33*	10*	52	66	
AOTF12T60P	NEW	TO-220F	Single	High Voltage	N	No	No	600	30	12*	9*	50		520						5	2028	13	33*	10*	52	66	
AOTF15S60		TO-220F	Single	High Voltage	N	No	No	600	30	15	10	27.8		290						3.8	717	1.3	15.6*	6*	24.5	84	
AOTF20C60 ⁽¹⁾		TO-220F	Single	High Voltage	N	No	No	600	30	20	11	50		250						5	3500	4	52*	14*	74	100	
AOTF20N60		TO-220F	Single	High Voltage	N	No	No	600	30	20	12	50		370						4.5	3061	22.8	61*	24*	57	128	
AOTF20S60		TO-220F	Single	High Voltage	N	No	No	600	30	20*	14*	50		199						4.1	1038	2.1	19.8*	7.6*	27.5	87.5	
AOTF27S60		TO-220F	Single	High Voltage	N	No	No	600	30	27	17	50		160						4	1294	2.3	26*	8.8*	31	99	
AOTF42S60		TO-220F	Single	High Voltage	N	No	No	600	30	39	25	50		99						3.8	2154	2.7	40*	11.9*	38.5	136	
AOTF42S60L		TO-220F	Single	High Voltage	N	No	No	600	30	39	25	37.9		99						3.8	2154	2.7	40*	11.9*	38.5	136	
AOTF3N50		TO-220F	Single	High Voltage	N	No	No	500	30	3	1.9	31		3000						4.7	276	2.6	6.7	2.7	11	20.5	
AOTF5N50		TO-220F	Single	High Voltage	N	No	No	500	30	5	3.3	35		1500						4.7	517	4.9	15.5	7.2	14.5	34.5	
AOTF5N50FD		TO-220F	Single	High Voltage	N	No	No	500	30	5	3.3	35		1800						4.2	440	4.5	11*	3.8*	18	31	
AOTF8N50		TO-220F	Single	High Voltage	N	No	No	500	30	8	5.6	38.5		850						4.6	868	7.8	23.6	10.6	19.5	51.5	
AOTF9N50		TO-220F	Single	High Voltage	N	No	No	500	30	9	6	38.5		850						4.6	868	7.8	23.6*	10.6*	19.5	51.5	
AOTF10N50FD		TO-220F	Single	High Voltage	N	No	No	500	30	10	6	50		750						4.2	1030	10	29*	9.5*	24	69	
AOTF12N50		TO-220F	Single	High Voltage	N	No	No	500	30	12	7.6	50		520						4.5	1361	12.6	29.1	20.1	29	82	
AOTF12T50P		TO-220F	Single	High Voltage	N	No	No	500	30	12*	8*	43		500						5	1477	6.3	22*	5.5*	37	46	
AOTF13N50		TO-220F	Single	High Voltage	N	No	No	500	30	13	8.5	50		510						4.5	1361	12.6	30.7*	13*	29	82	
AOTF14N50		TO-220F	Single	High Voltage	N	No	No	500	30	14	11	50		380						4.5	1914	16	44	29	44	92	
AOTF14N50FD		TO-220F	Single	High Voltage	N	No	No	500	30	14	9.6	50		470						4	1654	14.5	38.8*	17.5*	32	104	
AOTF16N50		TO-220F	Single	High Voltage	N	No	No	500	30	16	11	50		370						4.5	1914	16	42.8*	20.3*	44	92	
AOTF22N50		TO-220F	Single	High Voltage	N	No	No	500	30	22	15	50		260						4.5	3086	24	69*	24*	60	124	
AOTF29S50		TO-220F	Single	High Voltage	N	No	No	500	30	29	18	50		150						3.9	1312	2.5	26.6*	9.2*	28	103	
TO-247																											
AOK5N100		TO-247	Single	High Voltage	N	No	No	1000	30	4	2.5	42		4200						4.5	950	6	19*	6.5*	27	50	
AOK9N90		TO-247	Single	High Voltage	N	No	No	900	30	9	6	368		1300						4.5	2130	14	46*	20.5*	45	116	
AOK10N90 ⁽¹⁾		TO-247	Single	High Voltage	N	No	No	900	30	10	7	403		980						4.5	2630	18	60*	27*	64	155	
AOK8N80		TO-247	Single	High Voltage	N	No	No	800	30	7.4	4.6	50		1630						4.5	1375	11	26	9.1	35	69	
AOK18N65		TO-247	Single	High Voltage	N	No	No	650	30	18	12	417		390						4.5	3027	22	56*	19.6*	54	149	
AOK20N60		TO-247	Single	High Voltage	N	No	No	600	30	20	12	417		370						4.5	3061	22.8	61*	24*	57	128	
AOK20S60		TO-247	Single	High Voltage	N	No	No	600	30	20*	14*	266		199						4.1	1038	2.1	19.8*	7.6*	27.5	87.5	
AOK27S60		TO-247	Single	High Voltage	N	No	No	600	30	27	17	357		160						4	1294	2.3	26*	8.8*	31	99	
AOK42S60		TO-247	Single	High Voltage	N	No	No	600	30	39	25	417		99						3.8	2154	2.7	40*	11.9*	38.5	136	
AOK53S60		TO-247	Single	High Voltage	N	No	No	600	30	53	33	520		70						3.8	3034	3	59*	19*	48	215	
AOK22N50		TO-247	Single	High Voltage	N	No	No	500	30	22	15	417		260						4.5	3086	24	69*	24*	60	124	
AOK29S50		TO-247	Single	High Voltage	N	No	No	500	30	29	18	357		150						3.9	1312	2.5	26.6*	9.2*	28	103	
TO-251																											
AOU7S65		TO-251	Single	High Voltage	N	No	No	650	30	7	5	89		650						4	434	17.5	9.2*	2.7*	21	55	
AOU1N60		TO-251	Single	High Voltage	N	No	No	600	30	1.3	0.8	45		9000						5	130	1.8	6.1	3.1	10	20	
AOU2N60		TO-251	Single	High Voltage	N	No	No	600	30	2	1.4	56.8		4400						5	270	2.8	9.5	4.7	17.2	27	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	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)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)
											25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V							
AOU2N60A	NEW	TO-251	Single	High Voltage	N	No	No		600	30	2	1.4	57	4700						4.5	295	2.3	6.5*	1.8*	16	28	
AOU3N60		TO-251	Single	High Voltage	N	No	No		600	30	2.5	1.6	56.8	3500						5	304	3.3	9.9	4.6	17	24	
AOU4N60		TO-251	Single	High Voltage	N	No	No		600	30	4	2.6	104	2300						4.5	528	4.8	12*	1.8*	18	34	
AOU4S60		TO-251	Single	High Voltage	N	No	No		600	30	4	3	56.8	900						4.1	263	0.75	6*	1.8*	18	40	
AOU3N50		TO-251	Single	High Voltage	N	No	No		500	30	2.8	1.8	57	3000						4.7	276	2.6	6.7*	2.7*	11	20.5	
TO-251A																											
AOI7N65		TO-251A	Single	High Voltage	N	No	No		650	30	7	4.3	178	1560						4.5	982	7	19.6*	8.2*	26	53	
AOI7S65		TO-251A	Single	High Voltage	N	No	No		650	30	7	5	89	650						4	434	17.5	9.2*	2.7*	21	55	
AOI1N60		TO-251A	Single	High Voltage	N	No	No		600	30	1.3	0.8	45	9000						4.5	130	1.8	6.1	3.1	10	20	
AOI2N60		TO-251A	Single	High Voltage	N	No	No		600	30	2	1.4	56.8	4400						4.5	270	2.8	9.5*	4.7*	17.2	27	
AOI2N60A		TO-251A	Single	High Voltage	N	No	No		600	30	2	1.4	57	4700						4.5	295	2.3	6.5*	1.8*	16	28	
AOI4N60		TO-251A	Single	High Voltage	N	No	No		600	30	4	2.6	104	2300						4.5	528	4.8	12*	4.4*	17	34	
AOI4S60		TO-251A	Single	High Voltage	N	No	No		600	30	4	3	56.8	900						4.1	263	0.75	6*	1.8*	18	40	
AOI4T60 ⁽¹⁾		TO-251A	Single	High Voltage	N	No	No		600	30	4	2.5	83	2100						5	460	3.5	9*	2.4*	20	25	
AOI4T60P	NEW	TO-251A	Single	High Voltage	N	No	No		600	30	4	2.4	83	2100						4.2	522	2	8.3*	1.9*	21	25	
AOI7N60		TO-251A	Single	High Voltage	N	No	No		600	30	7	4.5	187	1300						4.5	975	7.3	19.3*	6.9*	25	58	
AOI11S60		TO-251A	Single	High Voltage	N	No	No		600	30	11	8.5	208	399						4.1	545	1.42	11*	3.8*	20	59	
AOI9N50		TO-251A	Single	General Purpose	N	No	No		500	30	9	5.7	187	800						4.5	630	5.7	13.1*	4.8*	17	25	
TO-251B																											
AOY2N60	NEW	TO-251B	Single	General Purpose	N	No	No		600	30	2	1.4	57	4700						4.5	295	2.3	6.5*	1.8*	19	21.8	
TO-252																											
AOD2N100		TO-252	Single	High Voltage	N	No	No		1000	30	2	1.2	83	9000						4.5	477	2.7	9.7*	3.5*	20	29	
AOD3N80		TO-252	Single	High Voltage	N	No	No		800	30	2.8	1.8	83	4800						4.5	510	3.7	10*	2.9*	21	34	
AOD7N65		TO-252	Single	High Voltage	N	No	No		650	30	7	4.3	178	1560						4.5	982	7	19.6*	8.2*	26	53	
AOD7S65		TO-252	Single	High Voltage	N	No	No		650	30	7	5	89	650						4	434	17.5	9.2*	2.7*	21	55	
AOD1N60		TO-252	Single	High Voltage	N	No	No		600	30	1.3	0.8	45	9000						5	130	1.8	6.1	3.1	10	20	
AOD2N60		TO-252	Single	High Voltage	N	No	No		600	30	2	1.4	56.8	4400						5	270	2.8	9.5	4.7	17.2	27	
AOD2N60A		TO-252	Single	High Voltage	N	No	No		600	30	2	1.4	57	4700						4.5	295	2.3	6.5*	1.8*	16	28	
AOD3N60		TO-252	Single	High Voltage	N	No	No		600	30	2.5	1.6	56.8	3500						5	304	3.3	9.9	4.6	17	24	
AOD4N60		TO-252	Single	High Voltage	N	No	No		600	30	4	2.6	104	2300						4.5	528	4.8	12*	4.4*	17	34	
AOD4S60		TO-252	Single	High Voltage	N	No	No		600	30	4	3	56.8	900						4.1	263	0.75	6*	1.8*	18	40	
AOD4T60 ⁽¹⁾		TO-252	Single	High Voltage	N	No	No		600	30	4	2.5	83	2100						5	460	3.5	9*	2.4*	20	25	
AOD4T60P	NEW	TO-252	Single	High Voltage	N	No	No		600	30	4	2.4	83	2100						4.2	522	2	8.3*	1.9*	21	25	
AOD7N60		TO-252	Single	High Voltage	N	No	No		600	30	7	4.5	178	1300						4.5	975	7.3	19.3*	6.9*	25	58	
AOD7S60		TO-252	Single	High Voltage	N	No	No		600	30	7	5	83	600						3.9	372	1.2	8.2*	2.8*	19	50	
AOD11S60		TO-252	Single	High Voltage	N	No	No		600	30	11	8.5	208	399						4.1	545	1.42	11*	3.8*	20	59	
AOD9N52		TO-252	Single	General Purpose	N	No	No		520	30	9	5.7	178	860						4.5	962	8	19.5*	7.1*	24	55	
AOD3N50		TO-252	Single	High Voltage	N	No	No		500	30	2.8	1.8	57	3000						4.7	276	2.6	6.7	2.7	11	20.5	
AOD5N50		TO-252	Single	High Voltage	N	No	No		500	30	5	3.1	104	1600						4.5	538	4.5	11.5*	4.1*	18	34	
AOD6N50		TO-252	Single	High Voltage	N	No	No		500	30	5.3	3.3	104	1400						4.5	538	4.5	11.5*	4.1*	18	34	
AOD9N50		TO-252	Single	General Purpose	N	No	No		500	30	9	5.7	178	800						4.5	630	5.7	13.1*	4.8*	17	25	
TO-262																											
AOW7S65		TO-262	Single	High Voltage	N	No	No		650	30	7	5	104	650						4	434	17.5	9.2*	2.7*	21	55	
AOW10N65		TO-262	Single	High Voltage	N	No	No		650	30	10	6.2	250	1000						4.5	1369	10	27.7*	11.3*	30	74	
AOW11S65		TO-262	Single	High Voltage	N	No	No		650	30	11	8	198	399						4	646	1.1	13.2*	4.3*	25	77	
AOW12N65		TO-262	Single	High Voltage	N	No	No		650	30	12	7.7	278	720						4.5	1792	11.5	39.8*	16.8*	36	120	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V _{DS} (V)	V _{GS} (±V)	I _D (A)		P _D (W)		10V	R _{DS(ON)} (mΩ max) at V _{GS} =						VGS(th) (max V)	Ciss (pF)	Crss (pF)	Qg* (nC)	Qgd (nC)	Td(on) (ns)	Td(off) (ns)
										25°C	70°C	25°C	70°C		4.5V	2.5V	1.8V	1.5V	1.2V								
AOW15S65	TO-262	Single	High Voltage	N	No	No		650	30	15	10	208		290						4	841	1.1	17.2*	5.6*	27	90	
AOW25S65	TO-262	Single	High Voltage	N	No	No		650	30	25	16	357		190						4	1278	1.4	26.4*	9.5*	29	112	
AOW4S60	TO-262	Single	High Voltage	N	No	No		600	30	4	3	83		900						4.1	263	0.75	6*	1.8*	18	40	
AOW7S60	TO-262	Single	High Voltage	N	No	No		600	30	7	5	104		600						3.9	372	1.2	8.2*	2.8*	19	50	
AOW10N60	TO-262	Single	High Voltage	N	No	No		600	30	10	7.2	250		750						4.5	1320	9.3	31*	14.4*	28	76	
AOW10T60P	NEW	TO-262	Single	High Voltage	N	No	No	600	30	10	6.6	208		700						5	1595	11	26*	8.2*	42	52	
AOW11N60	TO-262	Single	High Voltage	N	No	No		600	30	11	8	272		700						4.5	1656	11.2	30.6*	9.6*	39	92	
AOW11S60	TO-262	Single	High Voltage	N	No	No		600	30	11	8	178		399						4.1	545	1.42	11*	3.8*	20	59	
AOW12N60	TO-262	Single	High Voltage	N	No	No		600	30	12	9.7	278		550						4.5	1751	13	40*	17.9*	39	122	
AOW15S60	TO-262	Single	High Voltage	N	No	No		600	30	15	10	208		290						3.8	717	1.3	15.6*	6*	24.5	84	
AOW20C60 ⁽¹⁾	TO-262	Single	High Voltage	N	No	No		600	30	20	11	463		250						5	3440	5	52*	14*	74	100	
AOW20S60	TO-262	Single	High Voltage	N	No	No		600	30	20	14	266		199						4.1	1038	2.1	19.8*	7.6*	27.5	87.5	
AOW12N50	TO-262	Single	High Voltage	N	No	No		500	30	12	8.4	250		520						4.5	1361	12.6	30.7*	13*	29	82	
AOW14N50	TO-262	Single	High Voltage	N	No	No		500	30	14	11	278		380						4.5	1914	16	42.8*	20.3*	44	92	
AOW29S50	TO-262	Single	High Voltage	N	No	No		500	30	29	18	357		150						3.9	1312	2.5	26.6*	9.2*	28	103	
TO-262F																											
AOWF9N70	TO-262F	Single	High Voltage	N	No	No		700	30	9	5.8	28		1200						4.5	1357	7.4	28.5*	11.6*	35	76	
AOWF11N70	TO-262F	Single	High Voltage	N	No	No		700	30	11	7.2	28		870						4.5	1793	10.5	37.5*	15*	42	103	
AOWF7S65	TO-262F	Single	High Voltage	N	No	No		650	30	7	5	25		650						4	434	17.5	9.2*	2.7*	21	55	
AOWF10N65	TO-262F	Single	High Voltage	N	No	No		650	30	10	6.2	28		1000						4.5	1369	10	27.7	11.3	30	74	
AOWF11S65	TO-262F	Single	High Voltage	N	No	No		650	30	11	8	28		399						4	646	1.1	13.2*	4.3*	25	77	
AOWF12N65	TO-262F	Single	High Voltage	N	No	No		650	30	12*	7.7*	28		720						4.5	1792	11.5	39.8*	16.8*	36	120	
AOWF15S65	TO-262F	Single	High Voltage	N	No	No		650	30	15	10	28		290						4	841	1.1	17.2*	5.3*	27	90	
AOWF25S65	TO-262F	Single	High Voltage	N	No	No		650	30	25	16	28		190						4	1278	1.4	26.4*	9.5*	29	112	
AOWF4N60	TO-262F	Single	High Voltage	N	No	No		600	30	4	2.6	25		2300						4.5	528	4.8	12	4.4	17	34	
AOWF4S60	TO-262F	Single	High Voltage	N	No	No		600	30	4	3	83		900						4.1	263	0.75	6*	1.8*	18*	40	
AOWF7S60	TO-262F	Single	High Voltage	N	No	No		600	30	7	5	25		600						3.9	372	1.2	8.2*	2.8*	19	50	
AOWF10N60	TO-262F	Single	High Voltage	N	No	No		600	30	10	7.2	28		750						4.5	1320	9.3	31*	14.4*	28	76	
AOWF10T60P	NEW	TO-262F	Single	High Voltage	N	No	No	600	30	10	6.6	28		700						5	1595	11	26*	8.2*	42	52	
AOWF11C60 ⁽¹⁾	TO-262F	Single	High Voltage	N	No	No		600	30	11*	8*	28		400						5	2000	2.8	30*	7*	50	70	
AOWF11N60	TO-262F	Single	High Voltage	N	No	No		600	30	11	8	27.8		650						4.5	1656	11.2	30.6*	9.6*	39	92	
AOWF11S60	TO-262F	Single	High Voltage	N	No	No		600	30	11*	8*	28		399						4.1	545	1.42	11*	3.8*	20	59	
AOWF12N60	TO-262F	Single	High Voltage	N	No	No		600	30	12*	9.7*	28		550						4.5	1751	13	40*	17.9*	39	122	
AOWF12T60P	NEW	TO-262F	Single	High Voltage	N	No	No	600	30	12*	9*	28		520						5	2028	13	33*	10*	52	66	
AOWF15S60	TO-262F	Single	High Voltage	N	No	No		600	30	15	10	27.8		290						3.8	717	1.3	15.6	6	24.5	84	
AOWF20S60	TO-262F	Single	High Voltage	N	No	No		600	30	20*	14*	28		199						4.1	1038	2.1	19.8*	7.6*	27.5	87.5	
AOWF8N50	TO-262F	Single	High Voltage	N	No	No		500	30	8	6	27.8		850						4.5	868	7.8	23.6*	10.6*	19.5	51.5	
AOWF12N50	TO-262F	Single	High Voltage	N	No	No		500	30	12*	8.4*	28		520						4.5	1361	12.6	30.7*	13*	29	82	
AOWF14N50	TO-262F	Single	High Voltage	N	No	No		500	30	14*	11*	28		380						4.5	1914	16	42.8*	20.3*	44	92	
TO-263																											
AOB7S65	TO-263	Single	High Voltage	N	No	No		650	30	7	5	104		650						4	434	17.5	9.2*	2.7*	21	55	
AOB11S65	TO-263	Single	High Voltage	N	No	No		650	30	11	8	198		399						4	646	1.1	13.2*	4.3*	25	77	
AOB15S65	TO-263	Single	High Voltage	N	No	No		650	30	15	10	204		290						4	841	1.1	17.2*	5.3*	27	90	
AOB25S65	TO-263	Single	High Voltage	N	No	No		650	30	25	16	357		190						4	1320	1.4	26.4*	9.5*	29	112	
AOB4S60	TO-263	Single	High Voltage	N	No	No		600	30	4	3	83		900						4.1	263	0.75	6*	1.8*	18	40	
AOB7S60	TO-263	Single	High Voltage	N	No	No		600	30	7	5	104		600						3.9	372	1.2	8.2	2.8*	19	50	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V _{DS} (V)	V _{GS} (±V)	I _D (A)		P _D (W)		10V	R _{DS(ON)} (mΩ max) at V _{GS} =					V _{GS(th)} (max V)	C _{iss} (pF)	C _{rss} (pF)	Q _g * (nC)	Q _{gd} (nC)	T _{d(on)} (ns)	T _{d(off)} (ns)
										25°C	70°C	25°C	70°C		4.5V	2.5V	1.8V	1.5V	1.2V							
AOB10N60	TO-263	Single	High Voltage	N	No	No		600	30	10	7.2	250	2	750						4.5	1320	9.3	31	14.4	28	76
AOB10T60P	NEW	TO-263	Single	N	No	No		600	30	10	6.6	208		700						5	1595	11	23*	8.2*	42	52
AOB11C60 ⁽¹⁾	TO-263	Single	High Voltage	N	No	No		600	30	11	9	50		400						5	2010	2.4	30*	7*	50	70
AOB11N60	TO-263	Single	High Voltage	N	No	No		600	30	11	8	272		700						4.5	1656	11.2	30.6*	9.6*	39	92
AOB11S60	TO-263	Single	High Voltage	N	No	No		600	30	11	8	178	1.4	399						4.1	545	1.42	11*	3.8*	20	59
AOB12N60FD	TO-263	Single	High Voltage	N	No	No		600	30	12	8	278		650						4	1659	15.8	41*	19*	34	120
AOB12T60P	NEW	TO-263	Single	N	No	No		600	30	12	9	250		520						5	2028	2.2	33*	10*	52	66
AOB15S60	TO-263	Single	High Voltage	N	No	No		600	30	15	10	208		290						3.8	717	1.3	15.6*	6*	24.5	84
AOB20C60 ⁽¹⁾	TO-263	Single	High Voltage	N	No	No		600	30	20	11	463		250						5	3500	4	52*	14*	74	100
AOB20S60	TO-263	Single	High Voltage	N	No	No		600	30	20	14	266		199						4.1	1038	2.1	19.8*	7.6*	27.5	87.5
AOB27S60	TO-263	Single	High Voltage	N	No	No		600	30	27	17	357		160						4	1294	2.3	26*	8.8*	31	99
AOB42S60	TO-263	Single	High Voltage	N	No	No		600	30	37	23	417		109						3.8	2154	2.7	40*	11.9*	38.5	136
AOB12N50	TO-263	Single	High Voltage	N	No	No		500	30	12	8.4	250		520						4.5	1361	12.6	30.7	13	29	82
AOB14N50	TO-263	Single	High Voltage	N	No	No		500	30	14	11	278		380						4.5	1914	16	42.8	29	44	92
AOB29S50	TO-263	Single	High Voltage	N	No	No		500	30	29	18	357		150						3.9	1312	2.5	26.6*	9.2*	28	103

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Insulated-Gate Bipolar Transistors (IGBTs)

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) (μs)	I _{rm} (typ) (A)	
				25°C	100°C								
TO-220													
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	
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	NEW	TO-220F	IGBT with Anti-Parallel Diode	600	23	10	1.55	0.14	0.04	9.4	1.46	0.23	4.4
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	NEW	TO-220F	IGBT with Anti-Parallel Diode	600	23	15	1.53	0.26	0.07	17.4	1.52	0.25	5
TO-247													
AOK20B135D1	NEW	TO-247	IGBT with Anti-Parallel Diode	1350	40	20	1.57	1.05	66	1.46			
AOK10B60D	TO-247	IGBT with Anti-Parallel Diode	600	20	10	1.53	0.32	0.07	17.4	1.52	0.25	5	
AOK15B60D	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	0.20	47	1.34	0.80	9.5	
AOK30B60D1	TO-247	IGBT with Anti-Parallel Diode	600	60	30	1.85	1.10	0.24	34	1.47	0.50	7	
AOK40B60D	TO-247	IGBT with Anti-Parallel Diode	600	80	40	1.6	1.72	0.30	63.5	1.36	0.86	10	
AOK40B60D1	TO-247	IGBT with Anti-Parallel Diode	600	80	40	1.85	1.55	0.30	45	1.42	0.63	8	
AOK50B60D1	TO-247	IGBT with Anti-Parallel Diode	600	100	50	1.85	2.37	0.50	64	1.40	0.77	9	
AOK60B60D1	TO-247	IGBT with Anti-Parallel Diode	600	120	60	1.55	3.10	0.73	75	1.34	0.84	10	
AOK75B60D1	NEW	TO-247	IGBT with Anti-Parallel Diode	600	150	75	1.72	3.7	1.3	118	1.44	0.9	10
TO-252													
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	
TO-263													
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	

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

* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

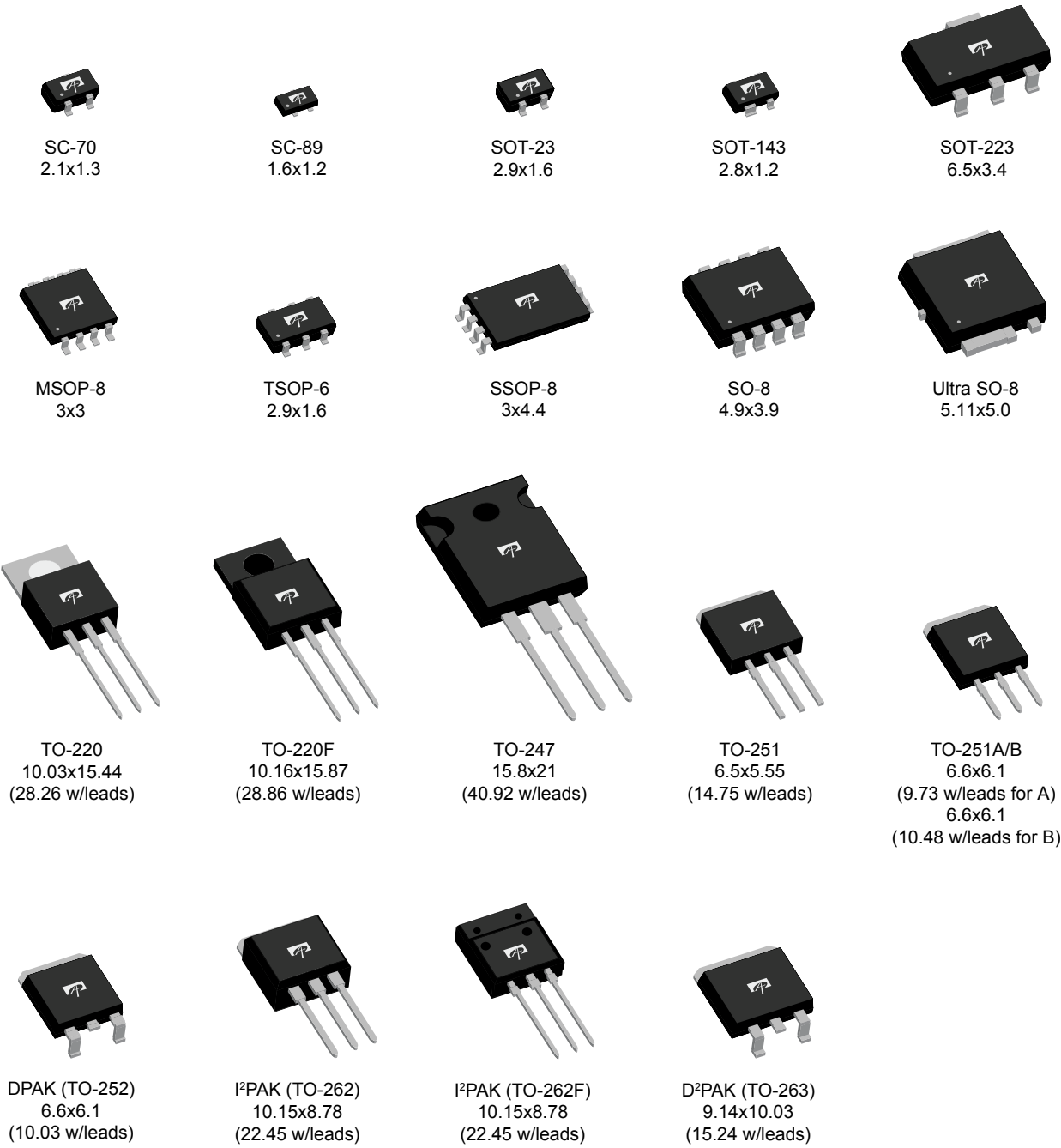
PACKAGE TYPES

AOS delivers advanced package technologies that meet the ever-increasing performance and power-efficiency from handheld, to computing, to consumer, to high-power industrial applications.

requirements of our customers. We offer a range of package options to support a wide spectrum of end-applications,



NOTE: Images are not to scale



NOTE: Images are not to scale

LEFT BLANK INTENTIONALLY

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