ALPHA & OMEGA SEMICONDUCTOR

Powering a Greener Future™

Selector Guide

Winter/Spring 2017

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ALPHA & OMEGA
SEMICONDUCTOR

Powering a Greener Future™

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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**	**Communications**	**Industrial / Power Supplies**
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 ■ Home Appliances ■ Induction Heating	■ Mobile Phones ■ Telecom Power ■ Networking ■ Battery Packs	■ Motor Controls ■ Power Supplies ■ Lighting ■ Welding ■ AC/DC PFC ■ PV Inverters
KEY FAMILIES / PLATFORMS	■ Low and Medium Voltage MOSFETs – Gen5+ – XSFET™ Family – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V αMOS™	■ Power ICs – DC-DC EZBuck™ – DrMOS – Smart Load Management ■ Low and Medium Voltage MOSFETs – Gen5+ – XSFET™ Family – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V αMOS™	■ Power ICs – DC-DC EZBuck™ – DrMOS – Smart Load Management ■ Low and Medium Voltage MOSFETs – Gen5+ – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V αMOS™ ■ IGBTs – 650V IGBT/FRD – 1200V & 1350V IGBT/FRD	■ Power ICs – DC-DC EZBuck™ – DrMOS – Smart Load Management ■ Low and Medium Voltage MOSFETs – Gen5+ – XSFET™ Family – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V αMOS™	■ Medium Voltage MOSFETs – SGT ■ High Voltage MOSFETs – 500V-1000V Planar – 600V αMOS™ ■ IGBTs – 650V IGBT/FRD

Green Product

RoHS Compliant

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	▪ Haier ▪ Panasonic ▪ Sanyo ▪ Nidec ▪ Microsteps ▪ Samsung ▪ Cuckoo	▪ 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
- ISO 14064 (Greenhouse Gasses)
- TS 16949 (Automotive)

PASSED AUDITS BY MAJOR CUSTOMERS:

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

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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

DC-DC Buck Regulators – Non Synchronous EZBuck™ Family

Part Number	Description	Integrated Schottky	Soft Start
AOZ1015AI	1.5 A EZBuck Regulator	Yes	Internal - 2.2 ms
AOZ1017AI	3 A EZBuck Regulator	No	Internal - 2.2 ms
AOZ1017AIL	3 A EZBuck Regulator	No	Internal - 2.2 ms
AOZ1019AI	2 A EZBuck Regulator	No	Internal - 4.0 ms
AOZ1056AI	2 A EZBuck Regulator	Yes	External - Programmable
AOZ1057AIL	3 A EZBuck Regulator	No	External - Programmable
AOZ1083CI	1.2 A EZBuck LED Driver	No	Internal - 0.4 ms
AOZ1084DI	1.2 A EZBuck LED Driver	No	Internal - 0.6 ms
AOZ1094AIL	5 A EZBuck Regulator	No	Internal - 3.0 ms
AOZ1210AI	2 A, 4.5 V to 27 V EZBuck Regulator	No	Internal - 4.0 ms
AOZ1212AI	3 A, 4.5 V to 27 V EZBuck Regulator	No	Internal - 6.0 ms
AOZ1212DI	3 A, 4.5 V to 27 V EZBuck Regulator	No	Internal - 6.0 ms
AOZ1280CI	1.2 A, 3 V to 26 V EZBuck Regulator	No	Internal - 0.4 ms
AOZ1281DI	1.8 A, 3 V to 26 V EZBuck Regulator	No	Internal - 0.4 ms
AOZ1282CI	1.2 A, 4.5 V to 36 V EZBuck Regulator	No	Internal - 1.5 ms
AOZ1282CI-1	600 mA, 4.5 V to 36 V EZBuck Regulator	No	Internal - 0.6 ms
AOZ1282DI	1.2 A, 4.5 V to 36 V EZBuck Regulator	No	Internal - 1.5 ms
AOZ1283PI	2.5 A, 3 V to 36 V EZBuck Regulator	No	External - Programmable
AOZ1284PI	4 A, 3 V to 36 V EZBuck Regulator	No	External - Programmable

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.

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)
Buck	SO-8	4.5	16.0	1.5	0.8	16.0	500
Buck	SO-8	4.5	16.0	3.0	0.8	16.0	500
Buck	SO-8	4.5	18.0	3.0	0.8	16.0	500
Buck	SO-8	4.5	16.0	2.0	0.8	16.0	500
Buck	SO-8	4.5	16.0	2.0	0.8	16.0	340
Buck	SO-8	4.5	16.0	3.0	0.8	16.0	340
Buck	SOT-23	3.0	26.0	1.2	0.28	23.8	1500
Buck	DFN 2x2	4.5	36.0	1.2	0.16	30.0	450
Buck	SO-8	4.5	16.0	5.0	0.8	16.0	500
Buck	SO-8	4.5	27.0	2.0	0.8	23.0	370
Buck	SO-8	4.5	27.0	3.0	0.8	23.0	370
Buck	DFN 5x4	4.5	27.0	3.0	0.8	23.0	370
Buck	SOT-23	3.0	26.0	1.2	0.8	26.0	1500
Buck	DFN 2x2	3.0	26.0	1.8	0.8	22.0	1500
Buck	SOT-23	4.5	36.0	1.2	0.8	36.0	450
Buck	SOT-23	4.5	36.0	0.6	0.8	36.0	1000
Buck	DFN 2x2	4.5	36.0	1.2	0.8	36.0	450
Buck	Exposed Pad SO-8	3.0	36.0	2.5	0.8	30.0	2000
Buck	Exposed Pad SO-8	3.0	36.0	4.0	0.8	16.0	2000

DC-DC Buck Regulators – Synchronous EZBuck™ Family

Part Number		Description	PGOOD	Soft Start
AOZ1236QI-01		6 A COT EZBuck Regulator	Yes	Adjustable
AOZ1236QI-02		6 A COT EZBuck Regulator	Yes	Adjustable
AOZ1238QI-01		10 A COT EZBuck Regulator	Yes	Adjustable
AOZ1267QI-01		8 A COT EZBuck Regulator	Yes	Adjustable
AOZ1267QI-02		8 A COT EZBuck Regulator	Yes	Adjustable
AOZ1268QI-01		10 A COT EZBuck Regulator	Yes	Adjustable
AOZ1268QI-02		10 A COT EZBuck Regulator	Yes	Adjustable
AOZ1269QI-02		12 A COT EZBuck Regulator	Yes	Adjustable
AOZ2151QI-01	***NEW***	**4 A COT EZBuck Regulator (Latch)**	**Yes**	**Adjustable**
AOZ2152QI-06	***NEW***	**6 A COT EZBuck Regulator (Latch)**	**Yes**	**Adjustable**
AOZ2260QI-10		6 A COT EZBuck Regulator (Latch)	Yes	Adjustable
AOZ2260QI-15		6 A COT EZBuck Regulator (Auto Restart)	Yes	Adjustable
AOZ2261QI-10		8 A COT EZBuck Regulator (Latch)	Yes	Adjustable
AOZ2261QI-15		8 A COT EZBuck Regulator (Auto Restart)	Yes	Adjustable
AOZ2262QI-10		10 A COT EZBuck Regulator (Latch)	Yes	Adjustable
AOZ2262QI-15		10 A COT EZBuck Regulator (Auto Restart)	Yes	Adjustable
AOZ2263QI-10		12 A COT EZBuck Regulator (Latch)	Yes	Adjustable
AOZ2263QI-15		12 A COT EZBuck Regulator (Auto Restart)	Yes	Adjustable
AOZ2264QI-10		15 A COT EZBuck Regulator (Latch)	Yes	Adjustable
AOZ3013PI		3 A EZBuck with External Soft-Start	No	External - Programmable
AOZ3015PI		3 A EZBuck with Light Load Mode	No	Internal - 5.0 ms
AOZ3017PI		4 A EZBuck with External Soft-Start	No	External - Programmable
AOZ3024PI		3 A EZBuck with Power Good	Yes	Internal - 4.5 ms
AOZ3046PI		4 A EZBuck Regulator	No	Internal - 4 ms
AOZ3053PI		5 A EZBuck with Smart Mode Adoption	No	Internal - 6 ms
AOZ3054DI		6 A EZBuck with Smart Mode Adoption	No	Internal - 6 ms
AOZ3101DI		2 A EZBuck with Internal Soft-Start	No	Internal - 4 ms
AOZ3103DI		3 A EZBuck with Internal Soft-Start	No	Internal - 4 ms
AOZ6622DI		2 A EZBuck with Internal Soft-Start/Compensation	No	Internal - 1.5 ms
AOZ6623DI		3 A EZBuck with Internal Soft-Start/Compensation	No	Internal - 1.5 ms
AOZ6643DI	***NEW***	**3 A EZBuck with Internal Soft-Start**	**No**	**Internal - 4 ms**

DC-DC Boost Regulators – EZBoost™ Family

Part Number	Description	Integrated Schottky	Product Type
AOZ1905DI	2.7 V to 5.5 V EZBoost Regulator	No	Boost
AOZ1915DI	2.7 V to 5.5 V EZBoost Regulator	No	Boost
AOZ1977AI	High Voltage Boost LED Driver Controller	No	Boost
AOZ1977AI-1	High Voltage Boost LED Driver Controller	No	Boost
AOZ1978AI	High Voltage Boost LED Driver Controller	No	Boost

Linear Regulators – LDOs

Part Number	Min V_{IN} (V)	Max V_{IN} (V)	Min V_{OUT} (V)	Max I_{OUT} (A)	Dropout Voltage	Package
AOZ2023PI	1.3	5.5	3.0	0.8	180 mV @ 2 A	Exposed Pad SO-8

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)
Buck	QFN 4x4	2.7	28.0	6.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	24.0	6.0	0.8	20.0	1000
Buck	QFN 4x4	2.7	28.0	10.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	8.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	24.0	8.0	0.8	20.0	1000
Buck	QFN 4x4	6.5	28.0	10.0	0.8	24.0	1000
Buck	QFN 4x4	6.5	24.0	10.0	0.8	20.0	1000
Buck	QFN 4x4	2.7	28.0	12.0	0.8	24.0	1000
Buck	**QFN 3x3**	**6.5**	**28**	**4**	**0.8**	**28.0**	**1000**
Buck	**QFN 3x3**	**6.5**	**28**	**6**	**0.8**	**28.0**	**1000**
Buck	QFN 4x4	2.7	28.0	6.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	6.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	8.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	8.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	10.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	10.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	12.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	28.0	12.0	0.8	24.0	1000
Buck	QFN 4x4	2.7	24.0	15.0	0.8	20.0	1000
Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
Buck	Exposed Pad SO-8	4.5	18.0	4.0	0.8	15.3	500
Buck	Exposed Pad SO-8	4.5	18.0	3.0	0.8	15.3	500
Buck	Exposed Pad SO-8	7.5	18.0	4.0	0.8	15.3	500
Buck	Exposed Pad SO-8	4.5	18.0	5.0	0.8	13.5	500
Buck	DFN 5x6	4.5	18.0	5.0	0.8	15.3	500
Buck	DFN 3x3	4.5	18.0	2.0	0.8	15.3	500
Buck	DFN 3x3	4.5	18.0	3.0	0.8	15.3	500
Buck	DFN 3x3	4.5	18.0	2.0	0.8	15.3	550
Buck	DFN 3X3	4.5	18.0	3.0	0.8	15.3	550
Buck	**DFN 3X3**	**4.5**	**18.0**	**3.0**	**0.8**	**15.3**	**500**

Package	Min V_{IN} (V)	Max V_{IN} (V)	$Isw_{SWITCH\ CURRENT\ LIMIT}$ (A)	Min V_{OUT} (V)	Max V_{OUT} (V)	Operating Freq. (kHz)
DFN 3x3	2.7	5.5	2 A	Vin*1.2	24.0	600 kHz / 1.2 MHz
DFN 4x3	2.7	5.5	2 A	Vin*1.2	24.0	600 kHz / 1.2 MHz
SO-16	8.0	N/A	N/A	N/A	N/A	Adjustable
SO-16	8.0	N/A	N/A	N/A	N/A	Adjustable
SO-20	8.0	N/A	N/A	N/A	N/A	200

Power Factor Correction (PFC)

Part Number	Description	PFC Mode	Freq. Operation	Control Mode
AOZ7111AI	Critical Conduction Mode PFC Controller	CRM	Variable	Voltage

Battery Protection ICs

Part Number	Overcharge Detection Voltage (V_{CU}) (V)	Overcharge Release Voltage (V_{CL}) (V)	Overdischarge Detection Voltage (V_{DL}) (V)	Overdischarge Release Voltage (V_{DU}) (V)
AOZ9250DI	4.375	4.175	2.8	2.8
AOZ9252DI	4.225	4.025	2.8	2.8
AOZ9256DI	4.375	4.175	2.8	2.8

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 3.5x5
AOZ5036QI-01		4.5	16.0	60.0	3.3 V	QFN 6x6
AOZ5049QI		4.5	25.0	35.0	5.0 V	QFN 3.5x5
AOZ5066QI		4.5	25.0	60.0	5.0 V	QFN 6x6
AOZ5066QI-01		4.5	25.0	60.0	3.3 V	QFN 6x6
AOZ5166QI-01		4.5	25.0	60.0	3.3 V	QFN 6x6
AOZ5039QI	***NEW***	**4.5**	**25.0**	**50.0**	**5.0 V**	**QFN 5x5**
AOZ5038QI	***NEW***	**4.5**	**25.0**	**60.0**	**5.0 V**	**QFN 5x5**
AOZ5048QI	***NEW***	**4.5**	**25.0**	**35.0**	**5.0 V**	**QFN 5x5**

Topology	Max Freq. Limit (Typ.) KHz	V_{CC} Max (V)	Drive Capability (mA)	ULVO (V)	OVP Latch	Min On-Time (Typ.) nS	Package
Step-up	350	20.0	+300/-800	9.5-12	Yes	450	SO-8

Overdischarge Release Voltage (V_{DU2}) (V)	Discharge Overcurrent Threshold (V_{DIOV}) (V)	Load Shortcircuiting Detection (V_{SHORT}) (V)	Charge Overcurrent Threshold (V_{CIOV}) (V)	Package	R_{SS} @ 3.9V mΩ
2.41	0.11	0.5	-0.1	DFN 2x4	24.4
2.41	0.14	0.5	-0.15	DFN 2x4	24.4
2.41	0.13	0.5	-0.125	DFN 2x4	24.4

Smart Load Switches – EZPower™ Family

Part Number	Description	V_{IN} (V)	Turn On Rise Time (T_r)
AOZ1310CI-1	Single USB Load Switch	2.7 - 5.5	1.5 ms
AOZ1312AI-1	Single USB Load Switch	2.7 - 5.5	1.5 ms
AOZ1312EI-1	Single USB Load Switch	2.7 - 5.5	1.5 ms
AOZ1320CI	Slew Rate Controlled Smart Load Switch	1.8 - 5.5	100 µs, 0.5 µs, 1.0 ms
AOZ1320DI	Slew Rate Controlled Smart Load Switch	1.8 - 5.5	100 µs, 0.5 µs, 1.0 ms
AOZ1321DI	Slew Rate Controlled Smart Load Switch	1.6 - 5.5	1.0 µs, 100 µs, 800 µs
AOZ1360AI	EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable
AOZ1360DI	EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable
AOZ1361DI	EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable
AOZ1363DI	EZPower™ Protected Smart Load Switch	5.0 - 16	16µs
AOZ1334DI-01	Single Channel Smart Load Switch	0.8 - 5.5	10 µs
AOZ1334DI-02	Single Channel Smart Load Switch	0.8 - 5.5	0.5 ms
AOZ1336DI	Single Channel Smart Load Switch	0.8 - 5.5	Adjustable
AOZ1325DI	Dual Slew Rate Controlled Smart Load Switch	1.6 - 5.5	1.0 ms
AOZ1331DI	Dual Channel Smart Load Switch	0.8 - 5.5	Adjustable
AOZ1341AI	Dual USB Load Switch	2.7 - 5.5	1.5 ms
AOZ1341EI	Dual USB Load Switch	2.7 - 5.5	1.5 ms
AOZ1342PI	Dual USB Load Switch	2.7 - 5.5	1.5 ms
AOZ1342PI-1	Dual USB Load Switch	2.7 - 5.5	1.5 ms

Analog Switches

Part Number	Description	On Resistance R_{ON} (Typ.) at 2.7V	On Resistance Flatness $RFLAT_{(ON)}$ (Max) at 2.7V
AOZ6115CI	Single SPST	2.0 Ω at 4.5 V	0.25 Ω at 4.5 V
AOZ6115HI	Single SPST	2.0 Ω at 4.5 V	0.25 Ω at 4.5 V
AOZ6134DI	Single SPDT	0.6 Ω at 4.5 V	0.25 Ω at 4.5 V
AOZ6135HI	Single SPDT	0.9 Ω at 4.5 V	0.25 Ω at 4.5 V
AOZ6232QI	Dual SPDT	0.25 Ω	0.15 Ω
AOZ6233QI	Dual SPDT	0.35 Ω	0.15 Ω
AOZ6234QI	Dual SPDT	0.40 Ω	0.15 Ω
AOZ6236QI	Dual SPDT	0.40 Ω	0.15 Ω
AOZ6274QI	Dual DPDT	0.40 Ω	0.15 Ω
AOZ6275QI	Dual DPDT	0.35 Ω	0.25 Ω

High-Speed USB Switches

Part Number	Description	On Resistance R_{ON} (Typ.) at 3.6V	On Capacitance $C_{(ON)}$ (Typ.) at 3.3V
AOZ6184QT	High Speed (USB2.0) DPDT; Bandwidth 1.1 GHz	8.0 Ω	3.6 Ω
AOZ6185QT	High Speed (USB2.0) DPDT w/Flat R_{ON} Bandwidth 990 MHz	7.2 Ω	1.9 Ω
AOZ6186QT	High Speed (USB2.0) DPDT; Bandwidth 960 MHz	7.0 Ω	5.0 Ω

Channel	Enable	Current Limit	Fault Latch	$R_{DS(ON)}$ (mOhm) (Typ)	Package
1	Active High	0.75 A	Yes	80	SOT-23
1	Active High	2.0 A	Yes	70	SO-8
1	Active High	2.0 A	Yes	70	eMSOP
1	CMOS/TTL Compatible	No	Yes	75	SOT-23
1	CMOS/TTL Compatible	No	Yes	75	DFN 2x2
1	CMOS/TTL Compatible	No	Yes	60	DFN 1.2x1.6
1	CMOS/TTL Compatible	Adjustable	Yes	35	SO-8
1	CMOS/TTL Compatible	Adjustable	Yes	35	DFN 4x4
1	CMOS/TTL Compatible	Adjustable	Yes	35	DFN 4x4
1	CMOS/TTL Compatible	11	Yes	23	DFN 3x3
1	CMOS/TTL Compatible	10	No	5	DFN 3x3
1	CMOS/TTL Compatible	10	No	5	DFN 3x3
1	CMOS/TTL Compatible	4	No	27	DFN 2x2
2	CMOS/TTL Compatible	No	Yes	150	DFN 3x3
2	CMOS/TTL Compatible	6.0 A	No	20	DFN 3x2
2	CMOS/TTL Compatible	1.5 A	Yes	70	SO-8
2	CMOS/TTL Compatible	1.5 A	Yes	70	eMSOP
2	Active Low	2.0 A	Yes	70	Exposed Pad SO-8
2	Active High	2.0 A	Yes	70	Exposed Pad SO-8

Supply Voltage Range V_{CC}	Total Harmonic Distortion THD (Typ.)%	Package
1.65 V to 5.5 V	0.005 %	SOT-23
1.65 V to 5.5 V	0.005 %	SC-70
1.65 V to 5.5 V	0.002 %	DFN 1.2x1.0
1.65 V to 5.5 V	0.005 %	SC-70
1.65 V to 3.3 V	0.024 %	QFN 2.1x1.6
1.65 V to 3.3 V	0.024 %	QFN 2.1x1.6
1.65 V to 4.3 V	0.024 %	QFN 2.1x1.6
1.65 V to 4.3 V	0.010 %	QFN 1.8x1.4
1.65 V to 4.3 V	0.024 %	QFN 3x3
1.65 V to 4.3 V	0.01 %	QFN 1.8x2.6

Supply Voltage Range V_{CC}	-dB Bandwidth Hz (Typ.)	Package
1.65 V to 4.5 V	1.1 G	QFN 1.4x1.8
1.65 V to 4.5 V	990 M	QFN 1.4x1.8
1.65 V to 4.5 V	960 M	QFN 1.4x1.8

TRANSIENT VOLTAGE SUPPRESSORs (TVS)

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

High Current Surge TVS

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines
		Contact	Air	
AOZ8202ACI-12	1-Line Bidirectional TVS Diode	± 30 kV	± 30 kV	1
AOZ8302ACI-05	2-Line TVS Diode Array	± 30 kV	± 30 kV	2
AOZ8302ACI-12	2-Line TVS Diode Array	± 30 kV	± 30 kV	2
AOZ8300CI-03	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4
AOZ8300CI-05	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4
AOZ8309	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4
AOZ8318DI	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4
AOZ8328DI	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4
AOZ8915CI	Ultra-Low Capacitance TVS Diode Array	± 24 kV	± 30 kV	4

Ultra-Low Capacitance TVS

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines
		Contact	Air	
AOZ8001DI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	2
AOZ8101	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	2
AOZ8802ADI	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	2
AOZ8881DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	2
AOZ8882DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	2
AOZ8000CI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	4
AOZ8006CI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	4
AOZ8102DI	Ultra-Low Capacitance TVS Diode Array	± 20 kV	± 20 kV	4
AOZ8106CI	Ultra-Low Capacitance TVS Diode Array w/ Blocking Diode	± 24 kV	± 30 kV	4
AOZ8132ADI	Ultra-Low Capacitance TVS Diode Array	± 20 kV	± 20 kV	4
AOZ8804ADI	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4
AOZ8808DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4
AOZ8808DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4
AOZ8809DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4
AOZ8809DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4
AOZ8818DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4
AOZ8818DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	4
AOZ8819DI-05	Ultra-Low Capacitance TVS Diode Array	± 13 kV	± 15 kV	4
AOZ8829DI-03	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4
AOZ8844DT-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 20 kV	4
AOZ8903CI	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 20 kV	4
AOZ8904CIL	Ultra-Low Capacitance TVS Diode Array	± 24 kV	± 24 kV	4
AOZ8905CI	Ultra-Low Capacitance TVS Diode Array	± 8 kV	± 15 kV	4
AOZ8906CI	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 20 kV	4

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

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
12.0 V	15 A	62 pF	19.0 V	SOT-23
5.0 V	32 A	20 pF	14.0 V (Ipp = 15 A)	SOT-23
12.0 V	24 A	20 pF	179.0 V (Ipp = 15 A)	SOT-23
3.3 V	25 A	2.5 pF	2.6 V	SOT-23
2.5 V	20 A	2.5 pF	3.5 V	SOT-23
3.3 V	16 A	2.5 pF	5.9V (Ipp = 16 A)	DFN 2.5x1.0
2.5 V	25 A	3.5 pF	3.5 V	DFN 2.6x2.6
2.5 V	32 A	2.8 pF	4.5 V	DFN 3.0x2.0
5.0 V	12 A	0.5 pF	12.0 V	SOT-23

Reverse Working Voltage	Channel Input Capacitance		Channnel Clamp Voltage	Package
V_{RWM} Max	I/O - I/O Typ.	I/O - GND Typ.	(Ipp=5A) V_{CL} Max.	
5.5 V	0.9 pF	1.0 pF	11.0 V	DFN 1.6x1.6
5.5 V	0.7 pF	1.3 pF	2.4 V	SOT-23
5.0 V	0.3 pF	0.6 pF	16.5 V	DFN 1.6x1.0
5.0 V	0.3 pF	0.3 pF	20.0V	DFN 1.2x1.1
5.0 V	0.3 pF	0.3 pF	12.0V	DFN 1.2x1.1
5.5 V	0.9 pF	1.0 pF	11.0 V	SOT-23
5.5 V	0.47 pF	0.7 pF	11.0 V	MSOP-10
5.5 V	0.9 pF	1.0 pF	12.0 V	DFN 1.6x1.6
5.5 V	0.43 pF	0.8 pF	16.0 V	SOT-23
5.0 V	0.6 pF	-	7.0 V	DFN 1.6x1.6
5.0 V	0.3 pF	0.6 pF	16.5 V	DFN 2.5x1.0
3.3 V	0.3 pF	0.6 pF	5.0 V	DFN 2.5x1.0
5.0 V	0.3 pF	0.6 pF	6.0 V	DFN 2.5x1.0
3.3 V	0.2 pF	0.45 pF	5.0 V	DFN 2.5x1.0
5.0 V	0.2 pF	0.45 pF	6.0 V	DFN 2.5x1.0
3.3 V	0.3 pF	0.3 pF	10.0 V	DFN 2.5x1.0
5.0 V	0.3 pF	0.3 pF	10.0 V	DFN 2.5x1.0
5.0 V	0.3 pF	0.6 pF	-	DFN 2.5x1.0
3.3 V	0.25 pF	0.6 pF	3.0 V	DFN 2.5x1.0
5.0 V	0.25 pF	0.5 pF	6.5 V	DFN 1.3x0.8
5.5 V	0.25 pF	0.5 pF	4.5 V	SOT-23
5.5 V	0.9 pF	1.25 pF	14.0 V	SOT-23
5.0 V	0.35 pF	0.7 pF	22.0 V	SOT-23
5.5 V	0.35 pF	0.5 pF	4.0 V	SOT-23

Ultra-Low Capacitance TVS *(Continued)*

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines
		Contact	Air	
AOZ8925CI	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	4
AOZ8806DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	6
AOZ8806DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	6
AOZ8807DI-03	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	6
AOZ8807DI-05	Ultra-Low Capacitance TVS Diode Array	± 15 kV	± 15 kV	6
AOZ8312DI	Ultra-Low Capacitance TVS Diode Array	± 30 kV	± 30 kV	12

Diode Arrays

Part Number		Description	IEC 61000-4-2 (ESD)	
			Contact	Air
AOZ8131DI		Ultra-Low Capacitance Bidirectional Single Diode	± 24 kV	± 24 kV
AOZ8211DI-02		Low Capacitance Unidirectional Single Diode	± 30 kV	± 30 kV
AOZ8211DI-03		Low Capacitance Unidirectional Single Diode	± 30 kV	± 30 kV
AOZ8211DI-05		Low Capacitance Unidirectional Single Diode	± 28 kV	± 28 kV
AOZ8211DI-12		Low Capacitance Unidirectional Single Diode	± 28 kV	± 28 kV
AOZ8211DI-24		Low Capacitance Unidirectional Single Diode	± 18 kV	± 15 kV
AOZ8231ADI-02		Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV
AOZ8231ADI-03		Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV
AOZ8231ADI-05		Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV
AOZ8231ADI-08		Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV
AOZ8231ADI-12		Low Capacitance Bidirectional Single Diode	± 30 kV	± 30 kV
AOZ8231ADI-24		Low Capacitance Bidirectional Single Diode	± 15 kV	± 18 kV
AOZ8231BDI-08		Low Capacitance Bidirectional Single Diode	± 18 kV	± 18 kV
AOZ8251ADI-02	***NEW***	**1-Line Bidirectional TVS Diode**	**± 30 kV**	**± 20 kV**
AOZ8251ADI-03	***NEW***	**1-Line Bidirectional TVS Diode**	**± 20 kV**	**± 20 kV**
AOZ8251ADI-05	***NEW***	**1-Line Bidirectional TVS Diode**	**± 20 kV**	**± 20 kV**
AOZ8252DI-05		1-Line Bidirectional TVS Diode	± 25 kV	± 30 kV
AOZ8811DI		Ultra-Low Capacitance Single Diode	± 8 kV	± 15 kV
AOZ8811DT-03		Ultra-Low Capacitance Single Diode	± 20 kV	± 20 kV
AOZ8821DI-05		Ultra-Low Capacitance Single Diode	± 15 kV	± 15 kV
AOZ8821DT-03		Ultra-Low Capacitance Single Diode	± 20 kV	± 20 kV
AOZ8831ADI-05		Ultra-Low Capacitance TVS Diode	± 25 kV	-
AOZ8831DI-05		Ultra-Low Capacitance Bidirectional Single Diode	± 15 kV	± 15 kV
AOZ8831DT-03		Ultra-Low Capacitance Bidirectional Single Diode	± 20 kV	± 20 kV
AOZ8831DT-05		Ultra-Low Capacitance Bidirectional Single Diode	± 20 kV	± 20 kV
AOZ8831DT-24		Ultra-Low Capacitance Bidirectional Single Diode	± 15 kV	± 13 kV
AOZ8841DI-05		Ultra-Low Capacitance Bidirectional Single Diode	± 25 kV	± 15 kV
AOZ8851ADI-03		Ultra-Low Capacitance Bidirectional Single Diode	± 20 kV	± 20 kV
AOZ8851ADI-05		Ultra-Low Capacitance Bidirectional Single Diode	± 20 kV	± 20 kV

Reverse Working Voltage	Channel Input Capacitance		Channnel Clamp Voltage	Package
V_{RWM} Max	I/O - I/O Typ.	I/O - GND Typ.	(Ipp=5A) V_{CL} Max.	
5.0 V	0.5 pF	1.0 pF	14.5 V	SOT-23
3.3 V	0.3 pF	0.6 pF	16.5 V	DFN 1.3x3.3
5.0 V	0.3 pF	0.6 pF	16.5 V	DFN 3.3x1.3
3.3 V	0.2 pF	0.45 pF	10.0 V	DFN 3.3x1.3
5.0 V	0.2 pF	0.45 pF	11.0 V	DFN 3.3x1.3
2.5 V	1.2 pF	2.3 pF	5.0 V	DFN 3.5x2.5

Protected Lines	Reverse Working Voltage	Channel Input Capacitance	Channnel Clamp Voltage	Package
	V_{RWM} Max	I/O - GND Typ.	(Ipp = 15 A) V_{CL} Max.	
1	5.0 V	1.25 pF	20.0 V	DFN 1.0x0.6
1	2.5 V	11 pF	9.5 V	DFN 1.0x0.6
1	3.3 V	11 pF	10.0 V	DFN 1.0x0.6
1	5.0 V	16 pF	10.0 V	DFN 1.0x0.6
1	12.0 V	30 pF	21.0 V	DFN 1.0x0.6
1	24.0 V	20 pF	37.0 V	DFN 1.0x0.6
1	2.5 V	5.5 pF	13.0 V	DFN 1.0x0.6
1	3.3 V	5.5 pF	14.0 V	DFN 1.0x0.6
1	5.0 V	13 pF	16.0 V	DFN 1.0x0.6
1	8.0 V	23 pF	23.0 V	DFN 1.0x0.6
1	12.0 V	13 pF	27.0 V	DFN 1.0x0.6
1	24.0 V	12 pF	39.0 V	DFN 1.0x0.6
1	8.0 V	45 pF	18.0 V	DFN 1.0x0.6
1	**2.5 V**	**10 pF**	**15 V**	**DFN 0.6x0.3**
1	**3.3 V**	**10 pF**	**16 V**	**DFN 0.6x0.3**
1	**5.0 V**	**10 pF**	**17 V**	**DFN 0.6x0.3**
1	5.0 V	-	-	DFN 0.62x0.32
1	5.0 V	0.50 pF	23.0 V	DFN 1.0x0.6
1	3.6 V	-	-	DFN 1.0x0.6
1	5.0 V	0.65 pF	15.0 V	DFN 1.0x0.6
1	3.6 V	-	-	DFN 1.0x0.6
1	5.0 V	0.3 pF	19.0 V	DFN 1.6x1.0
1	5.0 V	0.35 pF	23.0 V	DFN 1.0x0.6
1	3.6 V	0.22 pF	15.0 V	DFN 1.0x0.6
1	5.0 V	0.22 pF	15.0 V	DFN 1.0x0.6
1	24.0 V	0.35 pF	48.0 V	DFN 1.0x0.6
1	5.0 V	0.30 pF	19.5 V	DFN 1.0x0.6
1	3.3 V	0.22 pF	16 V	DFN 0.62x0.32
1	5.0 V	0.22 pF	175 V	DFN 0.62x0.32

Diode Arrays *(Continued)*

Part Number	Description	IEC 61000-4-2 (ESD)	
		Contact	Air
AOZ8212ACI-05	Low Capacitance Bidirectional Diode Arrays	± 15 kV	± 15 kV
AOZ8212BCI-12	Low Capacitance Bidirectional Diode Arrays	± 30 kV	± 30 kV
AOZ8212BCI-24	Low Capacitance Bidirectional Diode Arrays	± 15 kV	± 18 kV
AOZ8222DI-05	2-Line TVS Diode	± 20 kV	± 20 kV
AOZ8822DI-05	Low Capacitance 2-Line Diode	± 15 kV	± 15 kV
AOZ8832DI-05	Low Capacitance Bidirectional 2-Line Diode	± 12 kV	± 12 kV
AOZ8204DI	Low Capacitance Diode Arrays	± 30 kV	± 30 kV
AOZ8224CI-05	Low Capacitance Bidirectional Diode Arrays	± 30 kV	± 30 kV
AOZ8234DI	Low Capacitance 4-Line Diode Array	± 18 kV	± 18 kV
AOZ8244DI-05	Low Capacitance Bidirectional Diode Arrays	± 18 kV	± 18 kV
AOZ8858DI-03	Ultra-Low Capacitance Diode Array	± 30 kV	± 30 kV
AOZ8245DI	Low Capacitance Bidirectional Diode Arrays	± 20 kV	± 20 kV
AOZ8205DI	Low Capacitance Diode Arrays	± 30 kV	± 30 kV
AOZ8235DI	Low Capacitance 5-Line Diode Array	± 18 kV	± 18 kV
AOZ8236DI-05	5-Line TVS Diode Array	± 30 kV	± 30 kV
AOZ8206DI	Low Capacitance Diode Arrays	± 20 kV	± 20 kV
AOZ8208DI	Low Capacitance Diode Arrays	± 28 kV	± 28 kV

Protected Lines	Reverse Working Voltage V_{RWM} Max	Channel Input Capacitance I/O - GND Typ.	Channnel Clamp Voltage (Ipp = 15 A) V_{CL} Max.	Package
2	5.0 V	11 pF	16.0 V	SOT-23
2	12.0 V	10 pF	24.0 V	SOT-23
2	24 V	11 pF	40.0 V	SOT-23
2	5.0 V	15 pF	10.0 V	DFN 1.0x0.6
2	5.0 V	0.55 pF	17.0 V	DFN 1.0x0.6
2	5.0 V	0.4 pF	19.5 V	DFN 1.0x0.6
4	5.0 V	17 pF	7.0 V	DFN 1.6x1.6
4	5.0 V	13 pF	18.0 V	SOT-23
4	5.0 V	13.5 pF	12.0 V	DFN 1.45x1.0
4	5.0 V	0.5 pF	20 V	DFN 1.45x1.0
4	3.3 V	0.25 pF	10 V	DFN 1.45x1.0
5	3.3 V	0.25 pF	10 V	DFN 1.45x1.0
5	5.0 V	17 pF	7.0 V	DFN 1.6x1.6
5	5.0 V	13.5 pF	12.0 V	DFN 1.45x1.0
5	5.0 V	-	13.5 V	DFN 1.6x1.6
6	5.0 V	17 pF	9.0 V	DFN 1.6x1.6
8	5.0 V	17 pF	9.0 V	DFN 1.8x1.2

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

Low Voltage MOSFETs

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
AlphaDFN 0.97x0.97									
AOC2421	MCSP 0.97x0.97A	Single	Load Switch	P	Yes	No		-8	5
AlphaDFN 1.5x1.5 / 1.57x1.57									
AOC2401	MCSP 1.57x1.57	Single	Load Switch	P	Yes	No		-30	12
AOC2804B	MCSP 1.5x1.5	Common Drain	Load Switch	N	Yes	No		20	12
AlphaDFN 1.7x1.7									
AOC2870	MCSP 1.7x1.7	Common Drain	Load Switch	N	Yes	No		20	12
AOC2806	MCSP 1.7x1.7	Common Drain	Load Switch	N	Yes	No		20	12
AlphaDFN 2.7x1.8									
AOC3864	MCSP 2.7x1.8	Common Drain	Load Switch	N	Yes	No		20	8
AOC3868 *NEW*	**MCSP 2.7x1.8**	**Common Drain**	**Load Switch**	**N**	**Yes**	**No**		**12**	**8**
AlphaDFN 3.55x1.77									
AOC3860	MCSP 3.05x1.77	Common Drain	Load Switch	N	Yes	No		12	8
AOC3862	MCSP 3.55x1.77	Common Drain	Load Switch	N	Yes	No		12	8
SC-70									
AO7400	SC-70-3	Single	General Purpose	N	No	No		30	12
AO7410	SC-70-3	Single	General Purpose	N	No	No		30	12
AO7412	SC-70-6	Single	General Purpose	N	No	No		30	12
AO7408	SC-70-6	Single	General Purpose	N	No	No		20	8
AO7414	SC-70-6	Single	General Purpose	N	No	No		20	8
AO7407	SC-70-3	Single	General Purpose	P	No	No		-20	8
AO7411	SC-70-6	Single	General Purpose	P	No	No		-20	8
AO7413	SC-70-3	Single	General Purpose	P	Yes	No		-20	12
AO7415	SC-70-6	Single	General Purpose	P	Yes	No		-20	12
AO7417	SC-70-6	Single	General Purpose	P	No	No		-20	8
AO7401	SC-70-3	Single	General Purpose	P	No	No		-30	12
AO7405	SC-70-6	Single	General Purpose	P	No	No		-30	12
AO7800	SC-70-6	Dual	General Purpose	N	Yes	No		20	8
AO7801	SC-70-6	Dual	General Purpose	P	No	No		-20	8
SC-89									
AO5401E	SC-89-3	Single	Load Switch	P	Yes	No		-20	8
AO5803E	SC-89-6	Dual	Load Switch	P	Yes	No		-20	8
AO5600E	SC-89-6	Complementary	Inverter	N	Yes	No		20	8
AO5600E	SC-89-6	Complementary	Inverter	P	Yes	No		-20	8
SOT-23									
AO3400	SOT-23-3	Single	General Purpose	N	No	No		30	12
AO3400A	SOT-23-3	Single	General Purpose	N	No	No		30	12

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

manufactured in state-of-the-art 8-inch fabs. Advanced proprietary silicon and packaging processes are designed in AOS's U.S. MOSFETs and 600V, 650V, 1200V, and 1350V IGBTs.

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
-2.5		0.6				60	72	85	115	-0.7	752	178	104	7.5	1	12	4
-3		0.55		41	47	58				-1.3	1327	158	102	13.5	4	15	5
6		1.3			34[2]	56[2]				1.3				9.5			
10		1.4			11.9	20				1.3				11.5			
4.5		0.7			18[2]	29[2]				0.85				12.5			
19		2.4			5.7[2]	9[2]				1.3				27			
20		**2.5**			**5**	**7**				**1.1**				**35**			
30		2.5			2.7	4.2				0.9				44			
27		2.5			3.0	4.4				1.2				46			
1.7	1.3	0.35	0.22	55	65	85				1.5	235	35	18	4.7	1.6	8.5	2.6
1.7	1.3	0.35	0.22	55	65	85				1.5	235	35	18	4.7	1.6	8.5	2.6
1.7	1.3	0.35	0.22	55	65	85				1.5	235	35	18	4.7	1.6	8.5	2.6
2	1.5	0.35	0.22		62	75	85			1	260	48	27	2.9*	0.6	14	3.8
2	1.5	0.35	0.22		62	70	85			1	260	48	27	2.9	0.6	14	3.4
-1.2	-1	0.63	0.4		135	170	220			-1	560	80	70	8.5*	2.1	37	27
-1.8	-1.5	0.63	0.4		120	150	200			-1	560	80	70	8.5	2.1	37	27
-1.4	-1.2	0.35	0.22	113	135	180				-1.2	325	63	37	3.2	0.9	6.1	1.4
-2	-1.6	0.63	0.4	100	125	170				-1.2	325	63	37	3.2	0.9	6.1	1.4
-1.9	-1.6	0.57	0.36		80	100	125	150		-1	560	80	70	8.5	2.1	37	27
-1.4	-1	0.35	0.22	115	140	200				-1.4	260	37	20	2.8	1	11.5	4.5
-1.4	-1	0.35	0.22	115	140	200				-1.4	260	37	20	2.8	1	11.5	4.5
0.9	0.7	0.3	0.19		300	350	450			0.9	101	17	14	1.57	0.36	6.7	1.6
-0.6	-0.48	0.3	0.19		520	700	950			-0.9	114	17	14	1.44	0.35	10	3
-0.5	-0.45	0.38	0.24		800	1000	1300			-0.9	72	17	9			27	8.3
-0.6	-0.4	0.4	0.24		800	1000	1250			-0.9	72	17	9			27	8.3
0.6	0.4	0.38	0.24		650	750	950			1	35	8	6	0.63	0.16	8	2
-0.5	-0.4	0.38	0.24		800	1000	1300			-1	72	17	9			27	8.3
5.8	4.9	1.4	1	28	33	52				1.45	630	75	50	6	1.8	8.5	2.6
5.7	4.7	1.4	0.9	26.5	32	48				1.45	630	75	50	6	1.8	8.5	2.6

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AO3402	SOT-23-3	Single	General Purpose	N	No	No		30	12
AO3404	SOT-23-3	Single	General Purpose	N	No	No		30	20
AO3404A	SOT-23-3	Single	General Purpose	N	No	No		30	20
AO3406	SOT-23-3	Single	General Purpose	N	No	No		30	20
AO3418	SOT-23-3	Single	SMPS	N	No	No		30	12
AO3424	SOT-23-3	Single	General Purpose	N	No	No		30	12
AO3434A	SOT-23-3	Single	Battery Protection	N	Yes	No		30	12
AO3414	SOT-23-3	Single	General Purpose	N	No	No		20	8
AO3416	SOT-23-3	Single	Load Switch	N	Yes	No		20	8
AO3420	SOT-23-3	Single	Load Switch	N	No	No		20	12
AO3413	SOT-23-3	Single	General Purpose	P	No	No		-20	8
AO3415	SOT-23-3	Single	General Purpose	P	Yes	No		-20	8
AO3415A	SOT-23-3	Single	General Purpose	P	Yes	No		-20	8
AO3419	SOT-23-3	Single	General Purpose	P	Yes	No		-20	12
AO3423	SOT-23-3	Single	General Purpose	P	Yes	No		-20	12
AO3435	SOT-23-3	Single	SMPS	P	No	No		-20	8
AO3401	SOT-23-3	Single	General Purpose	P	No	No		-30	12
AO3401A	SOT-23-3	Single	General Purpose	P	No	No		-30	12
AO3403	SOT-23-3	Single	General Purpose	P	No	No		-30	12
AO3407	SOT-23-3	Single	General Purpose	P	No	No		-30	20
AO3407A	SOT-23-3	Single	General Purpose	P	No	No		-30	20
AO3409	SOT-23-3	Single	General Purpose	P	No	No		-30	20
AO3421	SOT-23-3	Single	General Purpose	P	No	No		-30	20
AO3421E	SOT-23-3	Single	General Purpose	P	Yes	No		-30	20
TSOP-6									
AO6400	TSOP-6	Single	General Purpose	N	No	No		30	12
AO6402	TSOP-6	Single	General Purpose	N	No	No		30	20
AO6402A	TSOP-6	Single	General Purpose	N	No	No		30	20
AO6424	TSOP-6	Single	General Purpose	N	No	No		30	20
AO6424A	TSOP-6	Single	General Purpose	N	No	No		30	20
AO6432	TSOP-6	Single	General Purpose	N	No	No		30	20
AO6404	TSOP-6	Single	Load Switch	N	No	No		20	12
AO6409	TSOP-6	Single	Load Switch	P	Yes	No		-20	8
AO6409A	TSOP-6	Single	Load Switch	P	Yes	No		-20	8
AO6411	TSOP-6	Single	Load Switch	P	No	No		-20	8
AO6415	TSOP-6	Single	Load Switch	P	Yes	No		-20	12
AO6401	TSOP-6	Single	General Purpose	P	No	No		-30	12
AO6401A	TSOP-6	Single	General Purpose	P	No	No		-30	12
AO6403	TSOP-6	Single	General Purpose	P	No	No		-30	20
AO6405	TSOP-6	Single	General Purpose	P	No	No		-30	20
AO6800	TSOP-6	Dual	General Purpose	N	No	No		30	12
AO6802	TSOP-6	Dual	General Purpose	N	No	No		30	20
AO6808	TSOP-6	Common Drain	Load Switch	N	Yes	No		20	12
AO6601	TSOP-6	Complementary	Inverter	N	No	No		30	12
AO6601	TSOP-6	Complementary	Inverter	P	No	No		-30	12

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
4	3.2	1.4	0.9	52	65	85				1.5	235	35	18	4.7	1.6	8.5	2.6
5	4	1.4	0.9	31	43					2.4	255	45	35	2.55	1.3	8.5	2.2
5.8	4.9	1.4	0.9	25	35					2.6	373	67	41	3.3	1.7	10.5	4.5
3.6	2.9	1.4	0.9	50	70					2.5	170	35	23	2	1	7.5	2.5
3.8	3.1	1.4	0.9	55	65	85				1.5	235	35	18	4.7	1.6	8.5	2.6
3.8	3.1	1.4	0.9	55	65	85				1.5	235	35	18	4.7	1.6	8.5	2.6
4	3	1.4	0.9	52	60	78				1.5	245	35	20	2.6	1	6.5	7.5
3	2.5	1.4	0.9		62	70	85			1	260	48	27	2.9	0.6	14	3.8
6.5	5.2	1.4	0.9		22	26	34			1.1	1295	160	87	10	2.6	31	6.8
6	5	1.4	0.9	24	27	42	55			1.1	525	95	75	6	2	14	6
-3	-2.4	1.4	0.9		80	100	130			-1	560	80	70	8.5	2.1	37	27
-4	-3.5	1.5	1		41	53	65			-0.9	751	115	80	9.3	2.2	26	51
-5	-4	1.5	1		41	53	65			-0.9	751	115	80	9.3	2.2	26	51
-3.5	-2.8	1.4	0.9	85	102	140				-1.2	325	63	37	3.1	1.1	11	4.3
-2	-2	1.4	0.9	92	118	166				-1.2	325	63	37	3.2	0.9	6.1	1.4
-2.9	-2.3	1	0.6		70	90	110	130		-1	510	70	52	5.6	1.8	17	4
-4	-3.2	1.4	0.9	50	60	85				-1.3	645	80	55	7	2.5	11	3.5
-4	-3.2	1.4	0.9	50	60	85				-1.3	645	80	55	7	2.5	11	3.5
-2.6	-2.2	1.4	0.9	115	150	200				-1.4	260	37	20	2.8	1	11.5	4.5
-4.1	-3.5	1.4	0.9	52	87					2.4	520	100	65	4.6	2.2	11	5.3
-4.3	-3.5	1.4	0.9	48	78					-2.4	520	100	65	4.6	2.2	11	5.3
-2.6	-2.2	1.4	1	110	180					-2.4	197	42	26	2.2	1.1	11.3	4.4
-2.6	-2.2	1.4	1	110	180					-2.4	197	42	26	2.2	1.1	11.3	4.4
-3	-2	1.4	0.9	95	160					-2.5	215	46.5	27.5	2.2	1.2	9	16
6.9	5.8	2	1.3	28	33	52				1.45	630	75	50	6	1.8	8.5	2.6
5	4	1.25	0.8	31	43					2.4	255	45	35	2.55	1.3	8.5	2.2
7.5	6	2	1.28	24	35					2.6	373	67	41	3.5	1.7	10.5	4.5
5	4	1.25	0.8	31	43					2.4	255	45	35	2.55	1.3	8.5	2.2
6.5	5	2.5	1.5	35	48					2.4	270	50	35	3.2	1.75	10	2.3
7.5	6	2	1.28	24	35					2.6	373	67	41	3.5	1.7	10.5	4.5
8.6	6.8	2	1.28	17	18	24	33			1	1810	232	200	17.9	4.7	22	9.8
-5.5	-4.2	2.1	1.3		41	53	65			-0.9	751	115	80	9.3	2.2	26	51
-5.5	-4	2.1	1.3		41	53	65			-0.9	751	115	80	9.3	2.2	26	51
-7	-5.5	2.7	1.7	0	28.5	36.5	47			-0.9	1025	167	119	13*	3.4	30	80
-3.3	-2.7	1.25	0.8	82	100	140				-1.2	325	63	37	3.2	0.9	6.1	1.4
-5	-4	2	1.3	47	64	85				-1.3	645	80	55	7	2.5	11	3.5
-5	-4	2	1.3	47	64	85				-1.3	645	80	55	7	2.5	11	3.5
-6	-5	2	1.3	35	58					-2.4	760	140	95	6.7	3.2	15	9.7
-5	-4.2	2	1.3	52	87					-2.4	520	100	65	4.6	2.2	11	5.3
3.4	2.7	1.15	0.73	60	70	90				1.5	235	35	18	4.7	1.6	8.5	2.55
3.5	3	1.15	0.73	50	70					2.5	170	35	23	2	1	7.5	2.5
4.6	3.7	0.8	0.5		19	23				1	620	125	64	7.7	2.7	25	9
3.4	2.7	1.15	0.73	60	70	90				1.5	235	35	18	4.7	1.6	8.5	2.55
-2.3	-1.8	1.15	0.73	115	150	200				-1.4	260	37	20	2.8	1	11.5	4.5

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AO6602	TSOP-6	Complementary	Inverter	N	No	No		30	20
AO6602	TSOP-6	Complementary	Inverter	P	No	No		-30	20
AO6604	TSOP-6	Complementary	Inverter	N	No	No		20	8
AO6604	TSOP-6	Complementary	Inverter	P	No	No		-20	8
TSSOP-8									
AO8808A	TSSOP-8	Dual	Battery Protection	N	Yes	No		20	12
AO8801A	TSSOP-8	Dual	Load Switch	P	Yes	No		-20	8
AO8810	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	8
AO8814	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12
AO8820	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12
AO8822	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12
AO8830	TSSOP-8	Common Drain	Battery Protection	N	Yes	No		20	12
DFN 1.0x0.6									
AON1606	DFN 1.6x0.6	Single	Load Switch	N	Yes	No		20	8
AON1605	DFN 1.6x0.6	Single	Load Switch	P	Yes	No		-20	8
DFN 1.6x1.6									
AON1634	DFN 1.6x1.6A	Single	Load Switch	N	Yes	No		30	12
DFN 2x2									
AON2410	DFN 2x2B	Single	Load Switch	N	No	No		30	12
AON2420	DFN 2x2B	Single	General Purpose	N	No	No		30	20
AON2408	DFN 2x2B	Single	Load Switch	N	No	No		20	12
AON2400	DFN 2x2B	Single	Load Switch	N	No	No		8	5
AON2401	DFN 2x2B	Single	Load Switch	P	No	No		-8	5
AON2403	DFN 2x2B	Single	Load Switch	P	No	No		-12	8
AON2411	DFN 2x2C	Single	Load Switch	P	Yes	No		-12	8
AON2405	DFN 2x2B	Single	Load Switch	P	No	No		-20	8
AON2409	DFN 2x2B	Single	Load Switch	P	No	No		-30	20
AON2802	DFN 2x2	Dual	Battery Protection	N	Yes	No		30	12
AON2810	DFN 2x2	Dual	General Purpose	N	Yes	No		30	12
AON2812	DFN 2x2	Dual	General Purpose	N	Yes	No		30	12
AON2801	DFN 2x2	Dual	Load Switch	P	No	No		-20	8
AON2803	DFN 2x2	Dual	Load Switch	P	No	No		-20	8
DFN 2x5									
AON5802B	DFN 2x5	Common Drain	Battery Protection	N	Yes	No		30	12
AON5820	DFN 2x5	Common Drain	Battery Protection	N	Yes	No		20	12
DFN 3x2									
AON4420L	DFN 3x2	Single	Load Switch	N	No	No		30	20
AON4407	DFN 3x2	Single	Load Switch	P	Yes	No		-12	8
AON4703	DFN 3x2	Single	Load Switch	P	No	Yes	1 A	-20	8
AON4421	DFN 3x2	Single	Load Switch	P	No	No		-30	20
AON4803	DFN 3x2	Dual	Load Switch	P	No	No		-20	8
AON4805L	DFN 3x2	Dual	Load Switch	P	No	No		-20	8
AON4605	DFN 3x2	Complementary	Inverter	N	No	No		30	20
AON4605	DFN 3x2	Complementary	Inverter	P	No	No		-30	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
3.5	3	1.15	0.73	50	70					2.5	170	35	23	2	1	7.5	2.5
-2.7	-2.1	1.15	0.73	100	170					-2.4	197	42	26	2.2	1.1	11.3	4.4
3.4	2.5	1.1	0.7		65	75	100			1	260	48	27	2.9	0.6	14	3.8
-2.5	-2	1.1	0.7		75	95	115			-1	560	80	70	8.5	2.1	37	27
8	6.3	1.4	1	14	15	20	28			1	1160	232	146	16	3.8	20.2	8
-4.5	-3.6	1.5	0.96		42	54	68			-0.9	751	115	80	9.3	22	26	51
7	5.7	1.5	1		20	23	28			1.1	1295	160	97	10	2.6	31	6.8
7.5	6	1.5	0.96	16	18	24	34			1	1390	190	150	15.4	4	15	5.1
7	5.5	1.5	0.96	21	24	32	50			1.1	500	100	52	6	1	9	10
7	5.7	1.5	0.96	18	22	27				1	650	140	60	6.7	3	10	11
6	4.8	1.5	0.94	27	30	41	55			1	290	120	40	5.2	1.9	25	8
0.7	0.55	0.9	0.55		275	335	390			1	62.5	12.5	9	0.85	0.25		
-0.7	-0.55	0.9	0.55		710	930	1250			-1.1	50	12	7.5	0.75	0.2		
4	3	1.8	1.15	54	62	82				1.5	245	35	20	2.6	1	6.5	7.5
8	6	2.8	1.8		21	28				1.5	813	98	56	8	2.6	10	2.4
8	6	2.8	1.8	11.7	17.5					2.2	552	227	28	4.3	1.7	13.2	3.2
8	6	2.8	1.8		14.5	19				1.2	782	158	98	7	2.4	11	2.7
8	6	2.8	1.8			11	13	16	23	0.46	1645	470	320	16	2.8	17	9
-8	-6	2.8	1.8			22	28	36	53	-0.65	1465	345	235	12.5	3	23	7
-8	-6	2.8	1.8		21	28	40	54		-0.9	1370	350	258	12.7	3.4	20.7	5.2
-20	-15.5	5	3.2		8	11.6	17.5			-0.9	2180	675	425	20	5.5	28	13
-8	-6	2.8	1.8		32	41	56	70		-0.9	1025	167	119	13	3.4	15	4
-8	-6.3	2.8	1.8	32	53					-2.3	530	114	75	6	3	12.2	25.4
2	1.6	2.1	1.3	60	68	88				1.5	245	35	20	2.6	1	2	3
2	1.6	2.5	1.6	44	52	74				1.4	235	75	15	2.2	0.7	7.2	1.3
4.5	3.5	2.5	1.6	37	45	70				1.4	235	75	15	2.2	0.7	7.2	1.3
-3	-2	1.1	0.73		120	160	200			-1	540	90	63	5	1	21	9.1
-3.8	-3	1.5	0.95		70	90	115			-1	560	80	70	8.5	2.1	37	27
7.2	5.6	1.6	1		19	30				1.5	920	105	52	7.5	2.5	21.6	10
10	8	1.7	1		9.5	13				1	1255	200	168	12.5	6.5	11	15
10	8	1.6	1	19	25					2.5	550	110	55	4.6	2.2	11	13
-9	-7	2.5	1.6		20	25	31			-0.85	1740	334	200	19	5.3	22	17
-3.4	-2.7	1.7	1.1		90	120	160			-1	540	80	49	6.1	1.6	37	27
-8	-6	2.5	1.6	26	34					-1.8	930	170	120	8.6	3.4	18	32
-3.4	-2.7	1.7	1.1		90	120	165			-1	540	80	49	6.1	1.6	21	7.5
-4.5	-3.5	2	1.3		65	85	115			-1	560	80	70	8.5	2.1	37	27
4.3	3.4	1.9	1.2	65	115					3	238	35	30	3.1	1.6	7.5	2.5
-3.4	-2.7	1.9	1.2	110	180					-3	290	42	44	3	1.6	11.3	4.4

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
DFN 3x3										
AON3414		DFN 3x3	Single	Load Switch	N	Yes	No		30	20
AON7380		DFN 3x3	Single	SMPS	N	No	No		30	20
AON7400		DFN 3x3	Single	SMPS	N	No	No		30	12
AON7400A		DFN 3x3	Single	SMPS	N	No	No		30	20
AON7406		DFN 3x3	Single	SMPS	N	No	No		30	20
AON7408		DFN 3x3	Single	SMPS High Side	N	No	No		30	20
AON7410		DFN 3x3	Single	Load Switch	N	No	No		30	20
AON7414		DFN 3x3	Single	Load Switch	N	No	No		30	20
AON7422G	***New***	**DFN 3x3**	**Single**	**Load Switch**	**N**	**Yes**	**No**		**30**	**20**
AON7426		DFN 3x3	Single	Load Switch	N	Yes	No		30	20
AON7430		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7466		DFN 3x3	Single	General Purpose	N	No	No		30	25
AON7502		DFN 3x3	Single	General Purpose	N	No	No		30	25
AON7506		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7508		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7516		DFN 3x3	Single	Load Switch	N	No	No		30	20
AON7522E		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7524		DFN 3x3	Single	General Purpose	N	Yes	No		30	12
AON7530		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7532E		DFN 3x3	Single	General Purpose	N	Yes	No		30	20
AON7534		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7538		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7544		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7556		DFN 3x3	Single	General Purpose	N	No	No		30	20
AON7566		DFN 3x3	Single	General Purpose	N	Yes	No		30	20
AON7752		DFN 3x3	Single	General Purpose	N	No	Yes		30	20
AON7754		DFN 3x3	Single	General Purpose	N	No	Yes	SRFET	30	20
AON7764		DFN 3x3	Single	SMPS Low Side	N	No	Yes	SRFET	30	20
AON3402		DFN 3x3	Single	General Purpose	N	Yes	No		20	12
AON7404		DFN 3x3	Single	Load Switch	N	No	No		20	12
AON7407		DFN 3x3	Single	Load Switch	P	No	No		-20	8
AON3419		DFN 3x3	Single	Load Switch	P	No	No		-30	20
AON7401		DFN 3x3	Single	Load Switch	P	No	No		-30	25
AON7403		DFN 3x3	Single	Load Switch	P	No	No		-30	25
AON7409		DFN 3x3	Single	Load Switch	P	Yes	No		-30	25
AON7804		DFN 3x3	Dual	SMPS	N	Yes	No		30	20
AON7810		DFN 3x3	Dual	General Purpose	N	No	No		30	20
AON7812		DFN 3x3	Dual	General Purpose	N	No	No		30	20
AON3814		DFN 3x3	Common Drain	Battery Protection	N	Yes	No		20	12
AON3816		DFN 3x3	Common Drain	Battery Protection	N	Yes	No		20	12
AON3818		DFN 3x3	Common Drain	Battery Protection	N	Yes	No		24	12
AON3820		DFN 3x3	Common Drain	Battery Protection	N	Yes	No		24	12
AON3611		DFN 3x3	Complementary	General Purpose	N	No	No		30	20
AON3611		DFN 3x3	Complementary	General Purpose	P	No	No		-30	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
10.5	8	3.1	2	17	23					2.4	690	105	80	7.5	3	7.5	11.5
24	24*	24	9.5*	6.8	10.5					2.2	825	335	40	6.2	2.6	11	17
26	20*	35	14*	12.5	14.5					1.55	1210	330	85	10	2.7	36	47
40	28*	25	10*	7.5	10.5					2.5	1150	180	105	9.5	5	8.7	13.5
25	15*	15.5	6*	17	23					2.4	740	110	82	7.5	3	8	18
18	11.5*	11	4.5*	20	32					2.6	373	67	41	7.1	1.6	10.5	4.5
24	15*	20	8.3*	20	26					2.5	550	110	55	4.6	2.2	9	15
20	15*	15.5	6*	15	20					2.2	595	98	70	6.8	3.6	9	15
32	**32***	**28**	**11***	**4.6**	**7.2**					**2.4**	**2300**	**240**	**210**	**20**	**12**	**11**	**15**
40	31*	29	12*	5.5	8					2.35	1756	283	155	16	6.2	12.3	25
34	21*	23	9*	12	16					2.5	760	125	70	6.6	3	7	8
30	23*	25	10*	7.5	10.5					2.5	1150	180	105	9.5	5	8.7	13.5
30	23.5*	31	12.5*	4.7	7.6*					3	1022	574	63	6.2	3.5	15.3	20
12	9.4*	20.5	8*	9.8	15.8					2.3	542	233	31	4.3	1.7	9.7	11.5
32	25*	62.5	25*	3	4.6					2.2	1835	940	90	13.6	5.3	19	36.7
30	23*	25	10*	4.5	6.8					2.2	1229	526	83	12	5.5	12.6	15.2
34	27*	31	12*	4	6.8					2.2	1540	485	448	19.7	15	15.2	22.2
28	22*	32	12.8*	3.3	4	5.8				1.2	2250	800	65	16	5.2	16	23
30	23*	24	9.6*	4.7	7.2					2.2	1320	530	70	8.8	4	13.5	20.6
28	21*	28	11*	3.5	5.5					2.2	1950	810	95	12.8	4.8	17.5	34.5
30	23*	23	9*	5	8.5					2.2	1037	441	61	6.8	3.6	12.7	17.2
30	23*	24	9*	5.1	8.2					2.2	1128	435	59	7.4	2.3	13.3	25
30	23*	23	9*	5	8.5					2.2	951	373	62	7.5	3.2	10.2	13.6
12	9.4*	12.5	5*	10.5	16.5					2.2	600	230	30	4.4	1.9	8.6	10.5
34	34*	30	12*	3.7	5.2					2.4	3020	330	280	28	17.5	12	20
16	12*	20	8.3*	8.2	14.5					2.5	605	275	36.5	5.5	2.6	11.5	12.5
32	25*	70	28*	3.6	5					2.4	1975	913	92	13.6	5.3	19	36.7
32	25*	30	12*	3.2	4.8					2.2	1990	1015	120	13.2	6.6	21.8	50
12	10	3	2	13	17	26				1	1810	232	200	17.9	4.7	20.2	8
40	31*	40	16*		6	7.5				1.6	3860	740	580	36	12	17	36
-40	-29*	29	12*		9.5	12.5	18			-0.9	3495	528	425	44*	11	33	100
-10	-7.8	3.1	2	19	32					-2.5	1040	180	125	9.6	4.5	11.5	25
-35	-23*	29	12*	14	17*					-3	2060	370	295	30*	10	14	35
-29	-18*	25	10*	18	36*					-3	1130	240	155	18*	3.3	12	26
-32	-25*	96	38.5*	8.5	17					-2.7	2142	474	363	18.5	6	17.5	44.5
22	14*	17	7*	21	26					2.4	740	110	82	7.5	3	8	18
6	5*	20.5	8*	14	20.5					2.3	542	233	31	4.3	2	8.5	9
6	4.5*	12.6	5*	14.5	20.5					2.2	600	230	30	4.4	1.9	8.6	10.5
6	5.3	2.5	1.6		17	24				1.1	920	155	75	11	3.2	7.9	4.4
4	3.1	2.5	1.6		22	28				1.1	920	155	75	11	3.2	7.9	4.4
8	6	2.7	1.7		13.5	21				1.2	840	210	205	9.5	4.5	1.7	5.2
8	6.2	2	1.3		8.9	11.8				1.3	1325	250	220	12.5*	6		
5	3.8	2.1	1.3	50	70					2.5	170	35	23	2	1	7.5	2.5
-6	-4.7	2.5	1.6	38	62					-2.4	520	100	65	4.6	2.2	11	5.3

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AON7611		DFN 3x3	Complementary	Inverter	N	No	No		30	20
AON7611		DFN 3x3	Complementary	Inverter	P	No	No		-30	20
AON7934		DFN 3x3A	Asymmetric	SMPS	N	No	No		30	20
AON7934		DFN 3x3A	Asymmetric	SMPS	N	No	No		30	20
DFN 3.3x3.3										
AON7418		DFN 3.3x3.3	Single	Load Switch	N	No	No		30	20
AON7440		DFN 3.3x3.3	Single	Load Switch	N	No	No		30	20
AON7510		DFN 3.3x3.3	Single	Load Switch	N	No	No		30	20
AON7520		DFN 3.3x3.3	Single	Load Switch	N	Yes	No		30	12
AON7528		DFN 3.3x3.3	Single	General Purpose	N	Yes	No		30	20
AON7758		DFN 3.3x3.3	Single	General Purpose	N	No	Yes	SRFET	30	12
AON7784		DFN 3.3x3.3	Single	SMPS Low Side	N	No	Yes		30	12
AON7421		DFN 3.3x3.3	Single	Load Switch	P	No	No		-20	12
AON7423		DFN 3.3x3.3	Single	Load Switch	P	No	No		-20	8
AON7405		DFN 3.3x3.3	Single	Load Switch	P	No	No		-30	25
DFN 5x6										
AON6204		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6312		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6314		DFN 5x6	Single	General Purpose	N	No	No		30	30
AON6354		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6358		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6360		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6362		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6366E		DFN 5x6	Single	General Purpose	N	Yes	No		30	20
AON6368		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6370		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6372		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6380		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6382	***NEW***	**DFN 5x6**	**Single**	**General Purpose**	**N**	**No**	**No**		**30**	**20**
AON6384		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6404A		DFN 5x6	Single	Load Switch	N	Yes	No		30	20
AON6406		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6414A		DFN 5x6	Single	SMPS High Side	N	No	No		30	20
AON6426		DFN 5x6	Single	Load Switch	N	No	No		30	20
AON6500		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6502		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6508		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6510		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6512		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6516		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6520		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6524		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6528		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6536		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6538		DFN 5x6	Single	General Purpose	N	No	No		30	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
9	5.5*	7	2.8*	50	70					2.5	170	35	23	2	1	7.5	2.5
-18.5	-11.5*	20.8	8.3	38	62					-2.4	520	100	65	4.6	2.2	11	5.3
16	12*	23	9*	10.2	15.8					2.2	485	235	32	3.9	2.1	9.9	12.9
18	14*	25	10*	7.7	11.6					2.2	807	314	40	6	3	11.3	15
50	39*	83	33*	1.7	2.8					2.2	2994	1276	196	23	10	20	46
50	39*	42	17*	2.8	3.6					2.3	2820	410	280	25	12.5	15.5	31.5
75	59*	46	18.5*	1.25	2.1					2.0	4500	1400	1310	60	40	23	49
50	39*	83.3	33.3*	1.8	2.1	3.1				1.2	4175	1505	300	37	12.5	20.3	40.7
50	39*	83	33*	2	3.4					2.2	2895	1439	149	21.3	9	22.3	54
75	59*	34	13.5*	1.85	2.4					2.0	5200	860	86	29	3.6	19.3	51.2
50	39*	83	33*	3.5	4					2.1	3800	400	260	28	9	11	17
-50	-39*	83	33*	4.6	5.8	9				-1.2	4550	823	563	44	14	30	75
-50	-39*	83	33*		5	6.5	8.5	11		-0.9	5626	928	716	70	18.4	78	495
-50	-39*	83	33*	6.2	8.9*					-2.8	2450	550	370	21	12	25	47
24	19*	31	13*	12	18					2.4	510	220	22	3.5	1.4	11	17
85	83*	50	20*	1.85	2.5					2.2	3100	875	105	20	6	17	36
85	53*	32.5	13*	2.8	3.5					2.0	1900	400	60	13	3.6	12	21.5
83	52*	36	14*	3.3	5.2					2.2	1330	360	55	10	3.5	11	17
85	67*	48	19*	2.2	3.6					2.2	2200	1000	100	15	4.7	17	42
85	59*	42	17*	3	5					2.2	1590	660	80	11.5	5.8	14.5	31
60	39*	31	13*	5.2	8.6					2.2	820	340	40	6.1	2.4	11	19
34	34*	46	18*	3.7	5.2					2.4	3020	330	280	28	17	12	20
52	33*	27	11*	6.1	9.5					2.2	820	340	40	6.1	2	11	19
47	29*	26	10*	7.2	11.5					2.2	840	330	50	6.2	3.5	11	18
47	29*	26	10*	7.2	11.3					2.2	830	325	49	6.1	3.4	11	18
24	24*	26	10.5*	6.8	10.5					2.2	825	335	40	6.2	2.6	11	17
85	**83***	**50**	**20***	**1.85**	**2.5**					**2.2**	**3100**	**875**	**105**	**20**	**6**	**17**	**36**
83	52*	36	14*	3.3	5.2					2.2	1330	360	55	10	3.5	11	17
85	67*	83	33*	2.3	3					2.4	4335	720	435	33	16	29	13.5
170	110*	110	45*	2.3	3.5					2.4	4300	720	420	33	15	30	15
50	30*	31	12.5*	8	10.5					2.5	1150	180	105	9.5	5	8.7	13.5
65	43*	42	17*	5.5	7.5					2.5	1930	290	230	18	11	14	40
200	151*	83	33*	0.95	1.3					2	7036	2778	353	49.7	21.4	31	106
85	66*	83	33*	2.2	2.7					2.2	3430	1327	175	25	10.3	22	58
32	25*	41	16*	3.2	5					2.2	2010	898	124	17	8	14	20.3
32	25*	46	18.5*	4.4	5.9					2.2	2160	915	115	14	6.3	16.5	34.2
150	115*	83	33*	1.7	2.4					2	3430	1327	175	25	10.3	22	58
56	25*	25	10*	5	8					2.2	1229	526	83	12	5.5	12.6	15.2
50	29*	31	12.5*	8.5	11					2.5	1150	180	105	9.5	5	8.7	13.5
68	43*	35.5	14*	5	8.5					2.3	1080	427	92	8.1	4	12	16.8
30	23*	25	10*	6.3	9.8					2.2	1037	441	61	6.8	3.6	12.7	17.2
55	35*	35.5	14*	7	10					2.5	1210	210	100	9	3.5	9	13
75	48*	35.5	14*	4	7.4					2.4	1315	570	95	10	4.5	14	20.5

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AON6548		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6552		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6554		DFN 5x6	Single	General Purpose	N	No	No		30	12
AON6558		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6560		DFN 5x6	Single	Battery Management	N	No	No		30	20
AON6566		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6572		DFN 5x6	Single	General Purpose	N	No	No		30	12
AON6576		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6586		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6588		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6594		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6596		DFN 5x6	Single	General Purpose	N	No	No		30	20
AON6661		DFN 5x6	Complementary	General Purpose	N	No	No		30	20
AON6661		DFN 5x6	Complementary	General Purpose	P	No	No		-30	20
AON6667		DFN 5x6	Complementary	General Purpose	N	No	No		30	20
AON6667		DFN 5x6	Complementary	General Purpose	P	No	No		-30	20
AON6734	***NEW***	**DFN 5x6**	**Single**	**General Purpose**	**N**	**No**	**No**		**30**	**12**
AON6752		DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20
AON6756		DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20
AON6758		DFN 5x6	Single	SMPS Low Side	N	No	Yes	SRFET	30	20
AON6764		DFN 5x6	Single	General Purpose	N	No	Yes	SRFET	30	12
AON6792		DFN 5x6	Single	General Purpose	N	No	Yes	SRFET	30	12
AON6794		DFN 5x6	Single	General Purpose	N	No	Yes	SRFET	30	12
AON6796		DFN 5x6	Single	General Purpose	N	No	Yes	SRFET	30	12
AON6522		DFN 5x6	Single	General Purpose	N	No	No		25	20
AON6403		DFN 5x6	Single	Load Switch	P	No	No		-30	20
AON6405		DFN 5x6	Single	Load Switch	P	Yes	No		-30	20
AON6407		DFN 5x6	Single	Load Switch	P	No	No		-30	25
AON6411		DFN 5x6	Single	Load Switch	P	No	No		-20	12
AON6413		DFN 5x6	Single	Load Switch	P	Yes	No		-30	25
AON6435		DFN 5x6	Single	Load Switch	P	No	No		-30	25
AON6816		DFN 5x6	Dual	General Purpose	N	Yes	No		30	20
DFN 5x6 (PairFET™)										
AON6810		DFN 5x6	Common Drain	Battery Management	N	Yes	No		30	20
AON6812		DFN 5x6	Common Drain	Battery Management	N	Yes	No		30	20
AON6906A		DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6906A		DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6908A		DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6908A		DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6910A		DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6910A		DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6912A		DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6912A		DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6918		DFN 5x6	Asymmetric	SMPS	N	No	No		25	20
AON6918		DFN 5x6	Asymmetric	SMPS	N	No	No		25	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
85	66*	83	33*	1.8	2.5					2.2	4290	1680	300	31.2	14.6	23.5	60
30	23*	25	10*	5	8.5					2.2	1037	441	61	6.8	3.6	12.7	17.2
85	66*	70	28*	2.9	3.7					2.2	3020	880	140	21.3	7.2	17.8	33
30	24*	24	9.5*	5.1	8.2					2.2	1128	435	59	7.4	2.3	13.3	25
200	200*	208	83*	0.68	1.1					2.2	11500	3400	3100	130	92	38.5	120
32	25*	25	10*	5	8.5					2.4	1300	530	75	8.5	2.5	14	25
85	63.5*	48	19.2*	3.2	3.9					2	3290	855	135	20.3	4.4	16.5	31
32	25*	26	10.4*	4.7	7.2					2.2	1320	530	70	8.8	4	13.5	20.6
35	30*	41	16*	7.5	10.5					2.5	1150	180	105	9.5	5	8.7	13.5
32	25*	46	18.5*	3.3	4.8					2.2	2160	915	115	14	6.3	16.5	34.2
35	27*	39	15.5*	7	11					2.2	1037	441	61	6.8	3.6	12.7	17.2
35	30*	41	16*	7.5	10.5					2.5	1150	180	105	9.5	5	8.7	13.5
16	16*	12.5	5*	14	18					2.5	760	125	70	6.6	3	7	8
-16	-12.5*	20	8*	22	35					-2.5	1040	180	125	9.6	4.6	11.5	25
16	10.5*	10	4*	25	35					2.6	373	67	41	3.5	1.6	6	6.6
-16	-12.5*	20	8*	22	35					-2.5	1040	180	125	9.6	4.6	11.5	25
85	**53**	**32.5**	**13**	**2.8**	**3.5**					**2.0**	**1900**	**400**	**60**	**45**	**3.6**	**12**	**21.5**
85	66*	83	33*	1.7	2.5					2.2	3509	1468	180	25.6	9.5	23	43.8
36	28*	83	33*	2.4	4					2.4	2796	1200	165	22.3	8.6	20	40
32	25*	41	16*	3.6	5					2.4	1975	913	92	13.6	5.3	19	36.7
85	60*	42	17*	2.8	3.45					1.9	2120	700	69	16.8	4.9	15.5	33
85	76*	48	19*	2	2.5					1.9	3110	930	100	21	5.6	17.5	43
85	64*	42	17*	2.8	3.5					1.9	2150	710	70	17	5	15.5	33
70	46*	31	13*	3.9	5					1.9	1350	450	60	10.5	3	13	22
200	151*	83	33*	0.95	1.3					2	7036	2778	353	49.7	21.4	31	106
-85	-67*	83	33*	3.1	4.3					-2.2	7600	1320	1050	79	33	26	78
-30	-23*	83	33*	7	8					-1.6	4580	755	564	41	17	32	77
-85	-67*	83	33*	4.5	6*					-2.6	3505	900	650	75*	23	35	75
-85	-67*	156	62.5*	2.1	2.5	3.6				-1.3	10290	1910	1395	100	36	48	178
-32	-25*	48	19*	8.5	17					-2.7	2142	474	363	18.5	6	17.5	44.5
-34	-21.5*	31	12.5*	17	34					-3	1130	240	155	10	6	13.5	29
16	16*	21	8*	6.2	9.6					2.2	1540	485	448	19.7	15	15.2	22.2
20	16*	31	12.5*	4.4	6.5					2.2	1720	746	61	11	3.2	20	30
28	22*	31	12.5*	4	6					2.2	1720	746	61	11	3.2	20	30
48	30*	45	18*	11.7	17.5					2.3	570	260	20	3.5	1.4	8.6	14.1
37	23*	31	12.5*	14.4	21.3					2.4	510	220	22	3.3	1.4	9	14.7
80	62*	78	31*	3.6	4.5					2	4380	380	280	31	9	10.5	17.2
46	28*	31	12*	8.9	12.5					2.4	850	490	30	5.7	2.6	12	22
80	52*	52	20*	4.1	5					2	3415	220	232	24	10	9	14.7
37	23*	31	12.5*	14	20					2.4	510	340	22	3.3	1.4	10	15
52	33*	30	12*	7.3	10.4					2.5	1090	125	38	7	2.5	7	8
34	21*	22	9*	13.7	19.3					2.5	760	490	70	6.6	3	13	25
60	38*	31	12.5*	5.2	7.8					2.3	1300	530	35	7.2	1.8	21	39
85	66*	104	41.5*	1.8	2.7					2.3	4000	1680	65	23	6	23	75

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AON6924	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6924	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6926	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6926	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6932A	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6932A	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6934A	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6934A	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6946	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6946	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6974A	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6974A	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6978	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6978	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6980	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6980	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6982	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6982	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6984	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6984	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6992	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6992	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6994	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6994	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6996	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6996	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AON6998	DFN 5x6	Asymmetric	SMPS	N	No	No		30	20
AON6998	DFN 5x6	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
DFN 5x6E (XS-PairFET™)									
AOE6930	DFN 5x6E	Asymmetric	General Purpose	N	No	No		30	20
AOE6930	DFN 5x6E	Asymmetric	General Purpose	N	No	No		30	12
AOE6932	DFN 5x6E	Asymmetric	General Purpose	N	No	No		30	20
AOE6932	DFN 5x6E	Asymmetric	General Purpose	N	No	No		30	12
AOE6936	DFN 5x6E	Asymmetric	General Purpose	N	No	No		30	20
AOE6936	DFN 5x6E	Asymmetric	General Purpose	N	No	No		30	20
SO-8									
AO4310	SO-8	Single	General Purpose	N	No	No		36	20
AO4306	SO-8	Single	General Purpose	N	No	No		30	20
AO4354	SO-8	Single	General Purpose	N	No	No		30	20
AO4404B	SO-8	Single	General Purpose	N	No	No		30	12
AO4406A	SO-8	Single	General Purpose	N	No	No		30	20
AO4430	SO-8	Single	General Purpose	N	No	No		30	20
AO4446	SO-8	Single	SMPS High Side	N	No	No		30	20
AO4466	SO-8	Single	SMPS High Side	N	No	No		30	20
AO4468	SO-8	Single	Load Switch	N	No	No		30	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
85	66*	104	14.5*	1.6	1.9					2.1	8190	900	670	60	20	16	34
60	38*	31	12.5*	5.2	7.8					2.3	1300	530	35	7.2	1.8	21	39
50	32*	35	14*	8.5	12					2.4	1130	180	40	8	3	8.7	13.5
44	28*	31	12.5*	11	14					2.5	1150	465	105	9.5	5	12	23
28	22*	31	12*	5	8.5					2.2	1037	441	61	6.8	3.6	12.7	17.2
42	33*	78	31*	2.5	3.2					1.9	3430	1327	175	25	10.3	22	58
28	22*	31	12*	5.2	9.5					2.2	1037	441	61	6.8	3.6	12	17.2
36	28*	33	13*	2.9	4.4					2.2	2010	898	124	17	8	14	20.3
16	12*	7.3	2.9*	11.6	17					2.2	485	235	32	3.9	2.1	9.9	12.9
18	14*	13	5.2*	7.8	11.8					2.2	807	314	40	6	3	11.3	15
28	22*	31	12	5.2	9.5					2.2	1037	441	61	6.8	3.6	12.7	17.2
32	25*	33	13*	3.3	5					2.2	1975	913	92	13.6	5.3	19	36.7
28	22*	31	12*	5.7	9.4					2.2	1010	474	50	6.8	2.5	14	24
36	28*	33	13*	3.8	4.9					2	3276	513	57	20.6	4.6	13.6	24.7
28	22*	23.5	9.4*	6.8	10.3					2.2	1095	270	28	6.4	2	11	24
36	28*	32	13*	3.8	4.9					2	3440	515	60	21	3.7	15.7	31.8
50	31*	21	8*	5.2	8.4					2.2	810	335	39	6	2.3	11	19
85	67*	45	18*	2	2.45					1.9	3080	920	99	20.7	5.5	17.5	43
50	31*	21	8*	5.2	8.4					2.2	810	335	39	6	2.3	11	19
82	54*	31	13*	2.8	3.45					1.9	2120	700	69	16.8	4.9	15.5	33
50	31*	21	8*	5.2	8.6					2.2	820	340	40	6.1	2.4	11	19
85	67*	45	18*	2	2.5					1.9	3110	930	100	21	5.6	17.5	43
50	31*	21	8*	5.2	8.6					2.2	820	340	40	6.1	2.4	11	19
82	54*	31	13*	2.8	3.5					1.9	2150	710	70	17	5	15.5	33
50	31*	21	8.3*	5.2	8.6					2.2	820	340	40	6.1	2.4	11	19
60	38*	22	8.6*	3.9	5					1.9	1350	450	60	10.5	3	13	22
50	31*	21	8*	5.2	8.6					2.2	820	340	40	6.1	2.4	11	19
82	54*	31	13*	2.6	2.99					1.9	2150	710	70	17	5	15.5	33
22	22*	24	9.6*	4.3	7					2.1	1075	480	55	7	2.5	12.5	21.5
85	85*	75	30*	0.83	1.05					1.9	5560	1670	200	42	12	23	72.5
55	35*	24	9.6*	5	8					2.2	1150	380	55	7.5	3	11.5	20
85	85*	52	20*	1.4	1.8					1.9	4180	880	125	30	7	17	42
55	35*	24	9.6*	5	8					2.2	1150	380	55	7.5	3	11.5	20
85	67*	39	15*	2	3					2.1	2270	650	90	15	4.5	14.5	30
27	22	3.6	2.3	3.1	4.2					2.3	3248	1130	54	20.6	6.2	21.7	60.5
13	10.4	3.1	2	11.5	15.5					2.5	760	125	70	6.6	3	7	8
23	14	3.1	1.2	3.7	5.3					2.2	2010	898	124	17	8	14	20.3
8.5	7.1	3.1	2	24	30	48				1.45	630	75	50	6	1.8	8.5	2.6
13	10.4	3.1	2	11.5	15.5					2.5	760	125	70	6.6	3	7	8
18	15	3	2.1	5.5	7.5					2.5	6060	638	355	48	15	33.5	22
15	12	3	2.1	8.5	14.5					3	1520	306	214	17	10	24	19
10	7	3.1	2	23	35					2.6	373	67	41	3.5	1.6	6	6.6
10.5	8.5	3.1	2	17	23					2.4	740	110	82	7.5	3	18	9

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AO4476A		SO-8	Single	SMPS	N	No	No		30	20
AO4490		SO-8	Single	Load Switch	N	Yes	No		30	20
AO4492		SO-8	Single	SMPS High Side	N	No	No		30	20
AO4494		SO-8	Single	SMPS High Side	N	No	No		30	20
AO4496		SO-8	Single	SMPS	N	No	No		30	20
AO4498		SO-8	Single	Load Switch	N	No	No		30	20
AO4568		SO-8	Single	General Purpose	N	No	No		30	20
AO4576		SO-8	Single	General Purpose	N	No	No		30	20
AO4752		SO-8	Single	General Purpose	N	No	Yes	SRFET	30	20
AO4402		SO-8	Single	Load Switch	N	No	No		20	12
AO4453		SO-8	Single	Load Switch	P	No	No		-12	8
AO4335		SO-8	Single	Load Switch	P	No	No		-30	25
AO4403		SO-8	Single	General Purpose	P	No	No		-30	12
AO4405		SO-8	Single	General Purpose	P	No	No		-30	20
AO4405E	***NEW***	**SO-8**	**Single**	**General Purpose**	**P**	**Yes**	**No**		**-30**	**20**
AO4407		SO-8	Single	Load Switch	P	No	No		-30	25
AO4407A		SO-8	Single	Load Switch	P	No	No		-30	25
AO4409		SO-8	Single	Load Switch	P	No	No		-30	20
AO4411		SO-8	Single	General Purpose	P	No	No		-30	20
AO4413		SO-8	Single	Load Switch	P	No	No		-30	25
AO4419		SO-8	Single	General Purpose	P	No	No		-30	20
AO4423		SO-8	Single	Load Switch	P	Yes	No		-30	25
AO4435		SO-8	Single	Load Switch	P	No	No		-30	25
AO4447A		SO-8	Single	Load Switch	P	Yes	No		-30	20
AO4449		SO-8	Single	Load Switch	P	No	No		-30	20
AO4455		SO-8	Single	Load Switch	P	Yes	No		-30	25
AO4459		SO-8	Single	Load Switch	P	No	No		-30	20
AO4425		SO-8	Single	Load Switch	P	Yes	No		-38	25
AO4840E		SO-8	Dual	General Purpose	N	No	No		40	20
AO4800B		SO-8	Dual	General Purpose	N	No	No		30	12
AO4812		SO-8	Dual	General Purpose	N	No	No		30	20
AO4818B		SO-8	Dual	General Purpose	N	Yes	No		30	20
AO4822		SO-8	Dual	General Purpose	N	No	No		30	20
AO4822A		SO-8	Dual	General Purpose	N	No	No		30	20
AO4832		SO-8	Dual	SMPS	N	No	No		30	20
AO4838		SO-8	Dual	SMPS	N	No	No		30	20
AO4842		SO-8	Dual	General Purpose	N	No	No		30	20
AO4854		SO-8	Dual	SMPS	N	Yes	No		30	20
AO4862		SO-8	Dual	Inverter	N	No	No		30	20
AO4862E		SO-8	Dual	Inverter	N	Yes	No		30	20
AO4806		SO-8	Dual	General Purpose	N	Yes	No		20	12
AO9926B		SO-8	Dual	Battery Protection	N	No	No		20	12
AO9926C		SO-8	Dual	Battery Protection	N	No	No		20	12
AO4821		SO-8	Dual	Load Switch	P	Yes	No		-12	8
AO4801A		SO-8	Dual	General Purpose	P	No	No		-30	12

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
15	12	3.1	2	7.7	10.8					2.5	1150	180	105	9.5	5	8.7	13.5
16	13	2.8	1.8	7.2	10					2.5	1803	387	238	19	8.7	27	17
14	11.4	3.1	2	9.5	14					2.2	770	240	77	7.1	3.1	11	23
18	14	3.1	2	6.5	9.5					2.5	1590	240	145	15	7.8	28	24
10	7.5	3.1	2	19.5	26					2.5	550	110	55	4.6	2.2	22	14
18	14	3.1	2	5.5	7.5					2.5	1910	316	227	18	11	14	40
12	9.4	2.5	1.6	11.5	17.5					2.2	600	230	30	4.4	1.9	8.6	10.5
20	12	3.1	1.2	5.8	9.8					2.2	1037	441	61	6.8	3.6	12.7	17.2
15	12	3.1	2	8.8	15.5					2.5	605	275	36.5	5.5	2.6	11.5	12.5
20	16	3.1	2		5.5	7				1.6	3860	740	580	36	12	17	36
-9	-7	2.5	1.6		19	26	36	50		-0.9	1370	350	258	12.7	3.4	20.7	5.2
-10.5	-8	3.1	2	18	36*					-3	1130	240	155	9.5	3.3	25	12
-6	-5	3.1	2	48	57	80				-1.3	645	80	55	7	2.5	11	3.5
-6	-5.1	3.1	2	50	85					-2.4	520	100	65	4.6	2.2	11	5.3
-6	**-4.7**	**2.5**	**1.6**	**45**	**80**					**-1.5**	**495**	**100**	**56**	**4.2**	**2**	**9**	**13.5**
-12	-10	3.1	2	14	30*					-2.8	2060	370	295	30*	10	30	22
-12	-10	3.1	2	13	17*					-3	2060	370	295	30*	10	30	22
-15	-12.8	3.1	2	7.5	12					-2.7	5270	945	745	51.5	23	36.7	28
-8	-6.6	3.1	2	32	55					-2.4	760	140	95	6.7	3.2	15	9.7
-15	-12.8	3.1	2	8.5						-3.5	2890	585	470	51*	16	18	11
-9.7	-7.8	3.1	2	20	35					-2.5	1040	180	125	9.6	4.6	11.5	25
-17	-14	3.1	2	7.2						-2.6	2527	583	397	47*	14	26.1	12.3
-10.5	-8	3.1	2	18	36					-3	1130	240	155	9.5	3.3	25	12
-17	-13	3.1	2	7	8					-1.6	4580	755	564	41	17	32	77
-7	-5.5	3.1	2	34	54					-2.4	760	140	95	6.7	3.2	15	9.7
-17	-14	3.1	2	7.2						-2.6	2823	574	424	54*	16	22.3	8.8
-6.5	-5.3	3.1	2	46	72					-2.4	520	100	65	4.6	2.2	11	5.3
-14	-11	3.1	2	11						-3.5	3800	560	350	63*	16.1	35	33
6	5	2	1.2	28	35					2.6	520	65	32	4.5	16.2	8	13
6.9	5.8	2	1.3	27	32	50				1.5	630	75	50	6	1.8	8.5	2.6
6	5	2	1.3	30	42					2.4	255	45	35	2.55	1.3	8.5	2.2
8.5	6.5	2	1.3	19	26					2.4	740	110	82	7.5	3	8	18
8	6.5	2	1.3	19	26					2.4	740	110	82	7.5	3	8	18
8.5	6.5	2	1.3	19	26					2.4	740	110	82	7.5	3	8	18
10	8	2	1.3	13	17.5					2.5	760	125	70	6.6	3	7	8
11	9	2	1.3	9.6	13					2.6	1080	180	110	8	3	8.5	13
7.7	6.5	2	1.44	21	30					2.6	373	67	41	3.5	1.7	10.5	4.5
8	6.5	2	1.3	19	23					2.4	740	110	82	7.5	3	8	18
4.5	3.5	1.7	1.1	50	68					2.5	200	35	25	2	1	7.5	2.5
4.5	3.5	1.7	1.1	46	65					2.5	215	35	20	2	1	5.5	7
9.4	7.5	2	1.28	14	16	22	30			1	1810	232	200	17.9	4.7	22	8.6
7.6	6.1	2	1.28	23	26	34	52			1.1	525	95	75	6	2	14	6
7.6	6.1	2	1.28	23	26	34	52			1.1	525	95	75	6	2	14	6
-9	-7	2	1.28		19	24	30			-0.85	1710	334	200	19	5.3	22	17
-5	-4	2	1.3	48	57	80				-1.3	645	80	55	7	2.5	11	3.5

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AO4803A	SO-8	Dual	General Purpose	P	No	No		-30	20
AO4805	SO-8	Dual	Load Switch	P	No	No		-30	25
AO4807	SO-8	Dual	General Purpose	P	No	No		-30	20
AO4813	SO-8	Dual	General Purpose	P	No	No		-30	20
AO4815	SO-8	Dual	Load Switch	P	Yes	No		-30	25
AO4606	SO-8	Complementary	Inverter	N	No	No		30	20
AO4606	SO-8	Complementary	Inverter	P	No	No		-30	20
AO4616	SO-8	Complementary	Inverter	N	No	No		30	20
AO4616	SO-8	Complementary	Inverter	P	No	No		-30	20
AO4620	SO-8	Complementary	Inverter	N	No	No		30	20
AO4620	SO-8	Complementary	Inverter	P	No	No		-30	20
AO4627	SO-8	Complementary	Inverter	N	No	No		30	20
AO4627	SO-8	Complementary	Inverter	P	No	No		-30	20
AO4629	SO-8	Complementary	Inverter	N	No	No		30	20
AO4629	SO-8	Complementary	Inverter	P	No	No		-30	20
AO4630	SO-8	Complementary	Inverter	N	No	No		30	12
AO4630	SO-8	Complementary	Inverter	P	No	No		-30	12
AO4622	SO-8	Complementary	Inverter	N	No	No		20	16
AO4622	SO-8	Complementary	Inverter	P	No	No		-20	12
AO4914	SO-8	Asymmetric	SMPS	N	No	No		30	20
AO4914	SO-8	Asymmetric	SMPS	N	No	Yes	1A	30	20
AO4924	SO-8	Asymmetric	SMPS	N	No	No		30	12
AO4924	SO-8	Asymmetric	SMPS	N	No	Yes	SRFET	30	12
AO4948	SO-8	Asymmetric	SMPS	N	No	No		30	20
AO4948	SO-8	Asymmetric	SMPS	N	No	Yes	SRFET	30	20
AO4952	SO-8	Asymmetric	SMPS	N	No	No		30	20
AO4952	SO-8	Asymmetric	SMPS	N	No	Yes	SRFET	30	20
Ultra SO-8									
AOL1202	Ultra SO-8	Single	SMPS	N	No	No		30	20
AOL1208	Ultra SO-8	Single	SMPS	N	No	No		30	20
AOL1432	Ultra SO-8	Single	SMPS High Side	N	No	No		25	20
AOL1404	Ultra SO-8	Single	Load Switch	N	No	No		20	12
TO-251A									
AOI418	TO-251A	Single	SMPS High Side	N	No	No		30	20
AOI514	TO-251A	Single	General Purpose	N	No	No		30	20
AOI530	TO-251A	Single	General Purpose	N	No	No		30	20
AOI538	TO-251A	Single	General Purpose	N	No	No		30	20
AOI403	TO-251A	Single	Load Switch	P	No	No		-30	25
AOI423	TO-251A	Single	General Purpose	P	No	No		-30	25
TO-251B									
AOY526	TO-251B	Single	General Purpose	N	No	No		30	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
-5	-4	2	1.3	46	74					-2.5	520	100	65	4.6	2.2	11	5.3
-9	-7	2	1.3	18						-2.8	2060	370	295	30*	10	30	22
-6	-5	2	1.3	35	58					-2.4	760	140	95	6.7	3.2	15	9.7
-7.1	-5.6	2	1.3	25	40					-2.5	1040	180	125	9.3	4.6	11.5	25
-8	-6.9	2	1.44	20						-3	2330	480	320	41*	12	28	20.5
6	5	2	1.3	30	42					2.4	255	45	35	2.55	1.3	8.5	2.2
-6.5	-5.3	2	1.3	28	44					-2.4	760	140	95	6.7	3.2	15	9.7
8.5	6.5	2	1.3	20	28					2.4	740	110	82	7.5	3	8	18
-7	-6	2	1.3	22	40					-2.5	1040	180	125	9.6	4.6	11.5	25
7.2	6.2	2	1.44	24	36					2.6	373	67	41	3.5	1.7	10.5	4.5
-5.3	-4.5	2	1.44	32	55					-2.4	760	140	95	6.7	3.2	15	9.7
4.5	3.5	2	1.3	50	68					2.5	170	35	23	2	1	7.5	2.5
-3.5	-2.5	2	1.3	100	165					-2.4	197	42	26	2.2	1.1	11.3	4.4
6	5	2	1.3	30	42					2.4	250	45	35	2.55	1.3	8.5	2.2
-5.5	-4.5	2	1.3	41	74					-2.5	520	100	65	4.6	2.2	11	5.3
7	5.6	2	1.3	23	28	36				1.45	670	75	45	6	14.5	6.5	7.5
-5	-4	2	1.3	48	57	78				-1.3	700	80	60	7		15	40
7.3	6.2	2	1.44	23	30	84				2	900	162	105	7.2	2.8	18	9.5
-5	-4.2	2	1.44		53	87				-1.3	800	131	103	7.4	2.9	20	9
8.5	6.5	2	1.3	20.5	28					2.4	730	165	82	7.5	3	8	8
8.5	6.5	2	1.3	20.5	28					2.4	740	110	82	7.5	3	8	18
7.3	5.9	2	1.3	24	29					1.5	900	224	65	10	3.75	10	6.8
9	7.2	2	1.3	15.8	19.5					2.4	1450	88	92	12	4.2	16.8	8
8	6.5	2	1.3	19	28					2.4	740	308	82	7.5	3	11.2	10.5
8.8	7.1	2	1.3	16	22					2.2	1267	110	118	10.4	3.6	8	18
11	9	2	1.3	11.5	16.5					2.2	542	233	31	4.3	1.7	11	12.5
11	9	2	1.3	10.5	15.5					2.5	605	275	37	4.9	2.3	9.7	11.5
54	42*	58	29*	4.2	6					2.3	1840	720	63	12	4.2	15	2
50	36*	50	25*	11	15					2.4	850	380	30	7	3.5	12	23
44	31*	30	15*	8.5	14					3	1430	319	215	13.5	7.75	23.06	15.25
45	35*	60	30*		4	5.6				1.6	3860	740	580	36	12	17	36
36	28*	50	25*	8	11.5					2.5	1150	180	105	9.5	5	8.7	13.5
46	36*	50	25*	5.9	11.9					2.4	1187	483	60	8.8	3.6	14.7	24
70	55*	83	41*	2.7	4.2					2.2	3130	1330	225	21.5	9.6	23	55
70	54*	93	46*	3.1	4.8					3.1	2160	915	115	14	6.3	16.5	34.2
-70	-55*	90	45*	8.5						-3.5	2890	585	470	51*	16	18	11
-70	-67*	90	45*	8.5						-3.5	2760	550	375	45*	12	15	30
50	39*	50	25*	5	9					2.4	1300	530	75	8.5	2.5	14	25

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
TO-252										
AOD418		TO-252	Single	SMPS High Side	N	No	No		30	20
AOD480		TO-252	Single	General Purpose	N	No	No		30	20
AOD508		TO-252	Single	General Purpose	N	No	No		30	20
AOD522P		TO-252	Single	General Purpose	N	No	No		30	20
AOD528		TO-252	Single	General Purpose	N	No	No		30	20
AOD536		TO-252	Single	General Purpose	N	No	No		30	20
AOD538		TO-252	Single	General Purpose	N	No	No		30	20
AOD558		TO-252	Single	General Purpose	N	No	No		30	20
AOD4132		TO-252	Single	SMPS Low Side	N	No	No		30	20
AOD424		TO-252	Single	General Purpose	N	No	No		20	12
AOD403		TO-252	Single	Load Switch	P	No	No		-30	25
AOD417		TO-252	Single	Inverter	P	No	No		-30	20
AOD423		TO-252	Single	General Purpose	P	No	No		-30	25
AOD607A	***NEW***	TO-252	Complementary	Inverter	N	No	No		30	20
AOD607A	***NEW***	TO-252	Complementary	Inverter	P	No	No		-30	20
AOD661	***NEW***	TO-252	Complementary	Inverter	P	No	No		-30	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
36	28*	50	25*	7.5	11					2.5	1150	180	105	9.5	5	8.7	13.5
25	18*	21	11*	23	33					2.6	373	67	41	3.5	1.6	10.5	4.5
70	55*	50	25*	3	4.5					2.2	2010	898	124	17	8	14	20.3
46	36*	53	26*	5.2	9.5					2.4	1150	500	60	8.8	23.3	14.7	24
50	39*	50	25*	5.4	9.5					2.4	1187	483	60	8.8	3.6	14.7	24
46	36*	37.5	18.5*	8.5	14.7					2.2	1140	400	45	6.5	2.5	12	20
70	54*	93	46*	3.1	4.8					3.1	2160	915	115	14	6.3	16.5	34.2
50	39*	50	25*	5.4	9.5					2.4	1187	483	60	4.1	3.6	14.7	24
85	63*	100	50*	4	6					3	3700	700	390	33	17.6	34	30
45	35*	100	50*	4.4	5.7					1.6	3860	740	580	36	12	17	36
-70	-55*	90	45*	8						-3.5	2890	585	470	51*	16	18	11
-25	-20*	50	25*	34	55					-3	920	140	90	8.2	3.6	23	14
-70	-67*	90	45*	8						-3.5	2760	550	375	45*	12	15	30
8	8*	19	7.5*	25	38					2.6	395	67	41	3.5	1.7	6	6.6
-12	-9.4*	30	12*	27	45					-2.4	730	140	90	6.7	3.2	12	25.5
-12	-9.4*	31	12.5*	22.5	36					-2.5	1040	180	125	9.6	4.6	11.5	25

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Medium Voltage MOSFETs

Part Number		Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
SOT-223										
AOH3254		SOT-223	Single	General Purpose	N	No	No		150	20
AOH3106		SOT-223	Single	General Purpose	N	No	No		100	20
SOT-23										
AO3442		SOT-23-3	Single	General Purpose	N	No	No		100	20
AO3422		SOT-23-3	Single	General Purpose	N	No	No		55	12
TSOP-6										
AO6420		TSOP-6	Single	General Purpose	N	No	No		60	20
DFN 2x2										
AON2290		DFN 2x2B	Single	Load Switch	N	No	No		100	20
AON2260		DFN 2x2B	Single	General Purpose	N	No	No		60	20
AON2240		DFN 2x2B	Single	General Purpose	N	No	No		40	20
DFN 3x3										
AON7460		DFN 3x3	Single	General Purpose	N	No	No		300	30
AON7462		DFN 3x3	Single	General Purpose	N	No	No		300	30
AON7458		DFN 3x3	Single	General Purpose	N	No	No		250	30
AON7296		DFN 3x3	Single	General Purpose	N	No	No		100	20
AON7246		DFN 3x3	Single	General Purpose	N	No	No		60	20
AON7262E		DFN 3x3	Single	General Purpose	N	Yes	No		60	20
AON7264E		DFN 3x3	Single	General Purpose	N	Yes	No		60	20
AON7446		DFN 3x3	Single	General Purpose	N	No	No		60	20
AON7240		DFN 3x3	Single	SMPS	N	No	No		40	20
DFN 3.3x3.3										
AON7254		DFN 3.3x3.3	Single	SMPS	N	No	No		150	20
AON7230		DFN 3.3x3.3	Single	SMPS	N	No	No		100	20
AON7232	***NEW***	**DFN 3.3x3.3**	**Single**	**SMPS**	**N**	**No**	**No**		**100**	**20**
AON7290		DFN 3.3x3.3	Single	SMPS	N	No	No		100	20
AON7292		DFN 3.3x3.3	Single	SMPS	N	No	No		100	20
AON7280		DFN 3.3x3.3	Single	SMPS	N	No	No		80	20
AON7140		DFN 3.3x3.3	Single	SMPS	N	No	No		40	20
AON7242		DFN 3.3x3.3	Single	SMPS	N	No	No		40	20
DFN 5x6										
AON6458		DFN 5x6	Single	General Purpose	N	No	No		250	30
AON6250		DFN 5x6	Single	General Purpose	N	No	No		150	20
AON6220		DFN 5x6	Single	SMPS	N	No	No		100	20
AON6224		DFN 5x6	Single	SMPS	N	No	No		100	20
AON6226		DFN 5x6	Single	SMPS	N	No	No		100	20
AON6290		DFN 5x6	Single	SMPS	N	No	No		100	20
AON6292		DFN 5x6	Single	SMPS	N	No	No		100	20
AON6294		DFN 5x6	Single	SMPS	N	No	No		100	20
AON6298		DFN 5x6	Single	SMPS	N	No	No		100	20
AON6452		DFN 5x6	Single	SMPS	N	No	No		100	25

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Qrr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
5	4	4.1	2.6	63	77					2.7	675	78	4	5.5	2.5	37	210
2	1.5	3.1	2	360	385					2	185	19	8	2.5	1.4	17	14.5
1	0.8	1.4	0.9	630	720					2.9	100	13	5	1.5	0.8	52	60
2.1	1.7	1.25	0.8		160	200				2	214	31	12.6	2.6	0.8	20	17
4.2	3.4	2	1.28	60	75					3	450	60	25	4.3	2.2	25.1	28.7
4.5	3.5*	2.8	1.8	72	97					2.8	415	32	3	3	1.5	16	44
6	4.7	2.8	1.8	44	53					2.5	426	50	5	2.6	0.8	27	12
8	6*	2.8	1.8	21	29					2.4	415	112	11	3	1.1	12.5	3.5
4	2.5*	33	13*	830						4.5	310	45	2.9	6.8	2	88	290
2.5	1.6*	25	10*	1500						4.5	197	30	2	4.6*	1.5	95	220
5	3.2*	33	13*	560						4.3	306	51	3.2	6	1.5	77	290
12.5	8*	20.8	8.3*	66	90					2.8	415	32	3	3	1.5	16	44
34.5	22*	34.7	13.9*	15	19					2.5	1340	123	10	9	2.6	15.5	55.5
34	34*	43	17	6.2	8.5					2.2	1652	520	52	15	6.5	19	60
28	28*	27.5	11*	9.5	13.3					2.4	1100	300	28	7	3.5	19	65
8	5*	16.7	7*	145	160*					3.3	237	25	9	4.4*	1.1	7.7	13
40	31*	36.7	14*	5.1	7					2.4	1830	521	43	12.8	6	16.5	40
17	11*	39	15.5*	54	66					2.7	675	78	4	5.5	2.5	37	210
47	30*	54	21*	11.5	15.5					2.5	2320	175	11	13	3	25	120
37	**23***	**39**	**15.5***	**13.5**	**16.5**					**2.5**	**1770**	**145**	**10**	**12**	**4.5**	**23**	**96**
50	35*	83	33*	12.6	18*					3.4	2075	175	9.5	9	4	35	185
23	15*	28	11*	24	32					2.6	1170	90	8	8	3.5	24	110
50	39*	83	33*	8.5	12*					3.4	1871	265	14	26.5*	4	32	162
50	50*	46	18.5*	2.3	3.5					2.4	3350	580	65	18	21.2	16	42
50	39*	83	33*	3.9	5.8					2.3	1970	540	41	11.9	2.2	16	47
14	8.8*	83	33*	170						4.5	1028	167	11	22*	8	158	1000
52	32*	104	41.5*	16.5	19*					3.4	2388	213	9.5	30.5*	4.5	68	560
48	48*	113.5	45.5*	6.2	7.4					2.3	4525	345	22.5	30	9	32	162
34	31*	56.5	22.5*	12	15.5					2.4	2420	170	11	15	4	27	128
48	48*	108	43*	7.9	10.2					2.3	3130	245	12.5	18.5	4.5	30	150
85	67*	208	83*	4.6	6.2*					3.4	4600	415	27	28.5	10	40	230
85	67*	156	62.5*	6	8.5*					3.4	3830	327	16.5	15.5	7	19	225
52	33*	57	23*	10	14*					3.5	2265	195	10	28*	4	35	195
46	30*	78	31*	16.5	21*					3.4	1307	127	8	16*	3	30	132
26	17*	35	14*	25	31*					4	1770	165	55	28*	10	20	82

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AON6482		DFN 5x6	Single	General Purpose	N	No	No		100	20
AON6484		DFN 5x6	Single	General Purpose	N	No	No		100	20
AON6850		DFN 5x6	Single	General Purpose	N	No	No		100	25
AON6276	***NEW***	**DFN 5x6**	**Single**	**SMPS**	**N**	**No**	**No**		**80**	**20**
AON6278		DFN 5x6	Single	SMPS	N	No	No		80	20
AON6280		DFN 5x6	Single	SMPS	N	No	No		80	20
AON6282		DFN 5x6	Single	SMPS	N	No	No		80	20
AON6284		DFN 5x6	Single	SMPS	N	No	No		80	20
AON6284A		DFN 5x6	Single	SMPS	N	No	No		80	20
AON6448		DFN 5x6	Single	General Purpose	N	No	No		80	25
AON6242		DFN 5x6	Single	SMPS	N	No	No		60	20
AON6260		DFN 5x6	Single	SMPS	N	No	No		60	20
AON6262E		DFN 5x6	Single	SMPS	N	Yes	No		60	20
AON6264E		DFN 5x6	Single	SMPS	N	Yes	No		60	20
AON6266		DFN 5x6	Single	SMPS	N	No	No		60	20
AON6268		DFN 5x6	Single	SMPS	N	No	No		60	20
AON6160	***NEW***	**DFN 5x6**	**Single**	**SMPS**	**N**	**No**	**No**		**60**	**20**
AON6152		DFN 5x6	Single	SMPS	N	No	No		45	20
AON6154		DFN 5x6	Single	SMPS	N	No	No		45	20
AON6156		DFN 5x6	Single	SMPS	N	No	No		45	20
AON6144		DFN 5x6	Single	SMPS	N	No	No		40	20
AON6230		DFN 5x6	Single	SMPS	N	No	No		40	20
AON6234		DFN 5x6	Single	SMPS	N	No	No		40	20
AON6236		DFN 5x6	Single	SMPS	N	No	No		40	20
AON6240		DFN 5x6	Single	SMPS	N	No	No		40	20
AON6440		DFN 5x6	Single	General Purpose	N	No	No		40	20
AON6442		DFN 5x6	Single	General Purpose	N	No	No		40	20
AON6590		DFN 5x6	Single	General Purpose	N	No	No		40	20
AON6884		DFN 5x6	Dual	Inverter	N	No	No		40	20
SO-8										
AO4286		SO-8	Single	SMPS	N	No	No		100	20
AO4290A	***NEW***	**SO-8**	**Single**	**SMPS**	**N**	**No**	**No**		**100**	**20**
AO4292		SO-8	Single	SMPS	N	No	No		100	20
AO4292E		SO-8	Single	SMPS	N	Yes	No		100	20
AO4294		SO-8	Single	SMPS	N	No	No		100	20
AO4296		SO-8	Single	SMPS	N	No	No		100	20
AO4452		SO-8	Single	General Purpose	N	No	No		100	25
AO4454		SO-8	Single	General Purpose	N	No	No		100	25
AO4482		SO-8	Single	Load Switch	N	No	No		100	20
AO4486		SO-8	Single	General Purpose	N	No	No		100	20
AO4444L		SO-8	Single	General Purpose	N	No	No		80	25
AO4448		SO-8	Single	General Purpose	N	No	No		80	25
AO4442		SO-8	Single	Display	N	No	No		75	25

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Qrr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
28	18*	75	25*	37	42					2.7	1630	100	50	18	9	32	200
12	7.5*	25	10*	79	90					2.7	778	55	24	9.6	5	23	142
28	18*	56	22*	35	42*					4	1530	155	66	24*	8	23	83
100	**100***	**215**	**86***	**2.6**						**3.2**	**4940**	**770**	**40**	**68***	**14**	**32**	**168**
85	66*	208	83*	3.3	4.6*					3.3	4646	632	31	61.5*	9.5	32	174
85	65*	83	33*	4.1	5*					3.2	3930	592	66	58*	14	36	153
85	56*	83	33*	5.6	8*					3.5	2848	392	22.5	36.5*	6	30	126
78	49*	78	31*	7.1	10*					3.3	2162	300	16	28*	4.5	26	118
48	42.5*	56	22*	6.5	8.5*					2.3	2540	310	18.5	16.5*	6	23	91
65	41*	83	33*	9.6	12*					3.7	2600	340	120	44*	14	17	65
85	66*	83	33*	3.6	4.5					2.5	5305	540	22	23	3	24.5	125
85	67*	104	41.5*	2.4	3.5					2.5	5578	1390	75	37	12	30	130
40	40*	48	19*	6.2	8.5					2.2	1650	520	52	15	6.5	19	60
28	28*	37.5	15*	9.5	13.3					2.4	1100	300	28	7	3.5	19	65
30	22.5*	38	15*	15	19					2.5	1340	123	10	9	2.6	17	60
44	44*	56	22*	4.7	6.3					2.3	2520	670	65	21	8.5	22	80
100	**100***	**215**	**86***	**1.58**						**3.4**	**6485**	**1050**	**30**	**85**	**13**	**33**	**176**
100	100*	208	83*	1.15	1.85					2.3	7410	1120	75	37	5.5	25	71
100	100*	125	50*	1.5	2.1					2.4	6575	870	82	38	16	22	60
100	82*	78	31*	2.5	4					2.5	3975	545	62	23	16	19	43
100	89*	78	31*	2.4	3.5					2.4	3780	675	60	22	16	17	45
85	66*	104	42*	1.44	2.1					2.3	6050	1640	105	35	13	28	98
85	67*	83	33*	3.4	5					2.4	2335	612	45	15	4.5	17.5	47.5
30	24*	39	15.5*	7	10.5					2.4	1225	318	26.5	8.2	2.5	14	32.5
85	67*	83	33*	1.6	2.4					2.4	5458	1395	103	31	10.8	23.9	84.6
85	67*	83	33*	3.4	4.5					2.2	5000	780	300	40	15	16	38
32	25*	35.7	14*	4.8	7					2.4	1830	521	43	12.8	6	16.5	40
100	100*	208	83*	0.99	1.5					2.3	8320	1438	85	45	7	26	83
34	21*	21	8*	11.3	13.8					2.7	1500	215	135	13.6	6.4	13	35
4	3	2.5	1.6	68	92					2.9	390	30	3	2.8	1.2	15	53
15.5	**12**	**3.1**	**2**	**6.4**	**7.6**					**2.3**	**4525**	**345**	**22.5**	**30**	**9**	**32**	**162**
8	6.2	3.1	2	23	33					2.7	1190	95	7	7	2.5	20	90
8	6.2	3.1	2	23	33					2.7	1200	93	6.3	8	2.5	20	80
11.5	9	3.1	2	12	15.5					2.4	2420	170	11	15	4	25	110
13.5	10.5	3.1	2	8.3	10.6					2.3	3130	245	12.5	18.5	4.5	28	130
8	6.5	3.1	2	25						4	1770	165	55	28*	10	27	28
6.5	5.3	3.1	2	36						4	1180	110	36	19*	6.3	16	50
6	5	3.1	2	37	42					2.7	1630	100	50	18	9	25	130
4.2	3.4	3.1	2	79	90					2.7	778	55	24	8.1	4.1	21	94
11	9	3.1	2	12						3.8	2386	276	100	38*	10	18	65
10	8	3.1	2	16						4.2	1670	215	72	28*	8	21	65
3.1	2.5	3.1	2	130	165					3	303	37	17	2.46	1.34	22	22

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AO4260	SO-8	Single	SMPS	N	No	No		60	20
AO4262E	SO-8	Single	SMPS	N	Yes	No		60	20
AO4264	SO-8	Single	SMPS	N	No	No		60	20
AO4264E	SO-8	Single	SMPS	N	Yes	No		60	20
AO4268	SO-8	Single	SMPS	N	No	No		60	20
AO4450	SO-8	Single	Load Switch	N	No	No		40	20
AO4480	SO-8	Single	Display	N	Yes	No		40	20
AO4484	SO-8	Single	Inverter	N	No	No		40	20
AO4443	SO-8	Single	Display	P	No	No		-40	20
AO4485	SO-8	Single	Inverter	P	No	No		-40	20
AO4421	SO-8	Single	General Purpose	P	No	No		-60	20
AO4441	SO-8	Single	Display	P	No	No		-60	20
AO4886	SO-8	Dual	General Purpose	N	No	No		100	20
AO4892	SO-8	Dual	General Purpose	N	No	No		100	20
AO4830[1]	SO-8	Dual	Load Switch	N	No	No		80	30
AO4850	SO-8	Dual	Inverter	N	No	No		75	25
AO4828	SO-8	Dual	General Purpose	N	No	No		60	20
AO4840	SO-8	Dual	General Purpose	N	No	No		40	20
AO4882	SO-8	Dual	Inverter	N	No	No		40	20
AO4884	SO-8	Dual	Inverter	N	No	No		40	20
AO4611	SO-8	Complementary	Inverter	N	No	No		60	20
AO4611	SO-8	Complementary	Inverter	P	No	No		-60	20
AO4612	SO-8	Complementary	Inverter	N	No	No		60	20
AO4612	SO-8	Complementary	Inverter	P	No	No		-60	20
AO4614B	SO-8	Complementary	Inverter	N	No	No		40	20
AO4614B	SO-8	Complementary	Inverter	P	No	No		-40	20
Ultra SO-8									
AOL1482	Ultra SO-8	Single	Load Switch	N	No	No		100	20
AOL1240	Ultra SO-8	Single	General Purpose	N	No	No		40	20
AOL1242	Ultra SO-8	Single	General Purpose	N	No	No		40	20
AOL1454	Ultra SO-8	Single	Inverter	N	Yes	No		40	20
TO-220									
AOT9N40	TO-220	Single	General Purpose	N	No	No		400	30
AOT12N40	TO-220	Single	High Voltage	N	No	No		400	30
AOT12N30	TO-220	Single	High Voltage	N	No	No		300	30
AOT20N25	TO-220	Single	High Voltage	N	No	No		250	30
AOT254L	TO-220	Single	General Purpose	N	No	No		150	20
AOT2500L	TO-220	Single	General Purpose	N	No	No		150	20
AOT2502L	TO-220	Single	General Purpose	N	No	No		150	20
AOT290L	TO-220	Single	General Purpose	N	No	No		100	20
AOT292L	TO-220	Single	General Purpose	N	No	No		100	20
AOT296L	TO-220	Single	General Purpose	N	No	No		100	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Qrr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
18	14	3.1	2	5.2	6.3					2.3	4940	445	32	31	8.5	22	96
16.5	13	3.1	2	6.5	8.5					2.2	1650	520	52	15	6.5	19	60
12	9	3.1	2	11	13.5					2.5	2007	177	12.5	11	2.5	15	55
13.5	10.5	3.1	2	9.8	13.5					2.4	1100	300	28	7	3.5	18.5	59
19	14.5	3.1	2	4.8	6.5					2.3	2500	670	65	21	6.5	22	80
7	5.5	3.1	2	30	38					3	516	82	43	4.3	1.4	18	10
14	11	3.1	2	11.5	15.5					3	1600	320	100	10.5	4.8	31	33
10	8	1.7	1.1	10	12.5					3	1500	215	135	13.6	6.4	30	19
-6	-5	3.1	2	42	63					-2.6	940	97	72	8.4	4.3	17	11.5
-10	-8	1.7	1.1	15	20					-2.5	2500	260	180	18.6	8.6	38	47
-6.2	-5	3.1	2	40	50					-3	2417	179	120	22.7	9.2	34	47
-4	-3.1	3.1	2	100	130					-3	930	85	35	8	3.2	27	32
3.3	2.7	2	1.28	80	91					2.7	778	55	24	8.1	4.1	21	94
4	3	2	1.3	68	94					2.8	415	32	3	3	1.5	16	44
3.5	2.9	2	1.3	75						5	640	40	20	5.5	1.2	20	50
3.1	2.4	2	1.3	130	165					3	290	54	24	2.34	1.18	30.2	21.5
4.5	3.6	2	1.28	56	77					3	450	60	25	4.3	2.2	27.5	32
6	5	2	1.3	30	38					3	516	82	43	4.3	1.4	18	10
8	6	2	1.3	19	27					2.4	415	112	11	3	1.1	12.5	3.5
10	8	2	1.3	13	16					2.7	1500	215	135	13.6	6.4	13	35
6.3	5	2	1.28	25	30					3	1920	155	116	24.2	14.4	33.2	43
-4.9	-3.9	2	1.28	42	52					-3	2417	179	120	22.8	9.6	32	42
4.5	3.6	2	1.28	56	77					3	450	60	25	4.3	2.2	27.5	32
-3.2	-2.6	2	1.28	105	135					-3	930	85	35	8	3.2	27	32
6	5	2	1.28	30	38					3	516	82	43	4.3	1.4	18	10
-5	-4	2	1.28	45	63					-3	940	97	72	7.9	3.2	21	14
28	20*	75	37*	37	42					2.7	1630	100	50	18	9	32	200
69	54*	125	62.5*	3	4.4					2.3	3165	920	45.5	18	3.5	20.5	56
69	54*	68	34*	5.2	7.9					2.3	1350	405	26	8	2.3	15.5	31
50	48*	60	30*	9	13					3	1600	320	100	10.5	4.8	31	33
8	5*	132		800						4.5	630	73	5.7	13.1*	4.8	195	1900
11	7*	184		590						4.5	925	100	6.4	17*	5.7	235	2400
11.5	7.3*	132		420						4.5	632	90	7	12.8*	4.3	170	1300
20	14*	208		170						4.5	1028	167	11	20*	8	179	1600
32	22.5*	125	62.5*	46	53					2.7	2150	110	4	12	3	51	434
152	107*	375	187.5*	6.5	7.6*					3.5	6460	586	22	97*	17	90	1090
106	67*	277	111*	11						5.1	3010	345	14	43*	10	75	880
140	110*	500	250*	3.5						4.1	7180	2780	42	90*	21	65	460
105	82*	300	150*	4.5	5.3*					3.4	6775	557	32	90*	13.5	50	380
70	50*	107	54*	10	12.5*					3.4	2785	238	12	16.5	5	35	210

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AOT298L		TO-220	Single	General Purpose	N	No	No		100	20
AOT410L		TO-220	Single	General Purpose	N	No	No		100	25
AOT412		TO-220	Single	General Purpose	N	No	No		100	25
AOT414		TO-220	Single	General Purpose	N	No	No		100	25
AOT418L		TO-220	Single	General Purpose	N	No	No		100	25
AOT2904	***NEW***	**TO-220**	**Single**	**General Purpose**	**N**	**No**	**No**		**100**	**20**
AOT2910L		TO-220	Single	General Purpose	N	No	No		100	20
AOT2916L		TO-220	Single	General Purpose	N	No	No		100	20
AOT2918L		TO-220	Single	General Purpose	N	No	No		100	20
AOT280L		TO-220	Single	General Purpose	N	No	No		80	20
AOT282L		TO-220	Single	General Purpose	N	No	No		80	20
AOT284L		TO-220	Single	General Purpose	N	No	No		80	20
AOT286L		TO-220	Single	General Purpose	N	No	No		80	20
AOT288L		TO-220	Single	General Purpose	N	No	No		80	20
AOT480L		TO-220	Single	General Purpose	N	No	No		80	25
AOT482L		TO-220	Single	General Purpose	N	No	No		80	25
AOT270AL		TO-220	Single	General Purpose	N	No	No		75	20
AOT430		TO-220	Single	General Purpose	N	No	No		75	25
AOT470		TO-220	Single	General Purpose	N	No	No		75	25
AOT260L		TO-220	Single	General Purpose	N	No	No		60	20
AOT262L		TO-220	Single	General Purpose	N	No	No		60	20
AOT264L		TO-220	Single	General Purpose	N	No	No		60	20
AOT266L		TO-220	Single	General Purpose	N	No	No		60	20
AOT460		TO-220	Single	General Purpose	N	No	No		60	20
AOT462L[1]		TO-220	Single	General Purpose	N	No	No		60	20
AOT1608L		TO-220	Single	Rugged Planar	N	No	No		60	20
AOT2606L		TO-220	Single	General Purpose	N	No	No		60	20
AOT2608L		TO-220	Single	General Purpose	N	No	No		60	20
AOT2610L		TO-220	Single	General Purpose	N	No	No		60	20
AOT2618L		TO-220	Single	General Purpose	N	No	No		60	20
AOT240L		TO-220	Single	General Purpose	N	No	No		40	20
AOT1404L		TO-220	Single	Rugged Planar	N	No	No		40	20
AOT2142L		TO-220	Single	General Purpose	N	No	No		40	20
TO-220F										
AOTF20N40		TO-220F	Single	High Voltage	N	No	No		400	30
AOTF12N30		TO-220F	Single	High Voltage	N	No	No		300	30
AOTF256L		TO-220F	Single	General Purpose	N	No	No		150	20
AOTF454L		TO-220F	Single	General Purpose	N	No	No		150	20
AOTF290L		TO-220F	Single	General Purpose	N	No	No		100	20
AOTF296L		TO-220F	Single	General Purpose	N	No	No		100	20
AOTF298L		TO-220F	Single	General Purpose	N	No	No		100	20
AOTF2910L		TO-220F	Single	General Purpose	N	No	No		100	20
AOTF2916L		TO-220F	Single	General Purpose	N	No	No		100	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Qrr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
58	41*	100	50*	14.5						4.1	1250	727	25	19*	6	39	140
150	108*	333	167*	6.5	7.5*					4	6622	594	215	107*	40	27	177
60	44*	150	75*	15.8	19.4*					3.8	2680	260	100	45	15	22	96
43	31*	115	58*	25	31*					4	1770	165	55	28*	10	20	82
105	82*	333	167*	10	12*					3.9	4334	382	131	69*	22	27	129
120	**120***	**326**	**163***	**4.4**						**3.3**	**7085**	**605**	**32**	**93**	**16**	**49**	**460**
30	21*	50	25*	24	33					2.7	1190	95	7	7	2.5	30	145
23	16*	41.5	20.5*	34	43.5					2.7	870	68	3.5	5.5	2	20	88
90	70*	267	133*	7						3.9	2580	1530	37	38*	12	46	230
140	110*	333	166.5*	2.7	3.5*					3.4	11135	1315	80	160*	28	44	348
105	82*	272.5	136*	3.5	5.2*					3.5	7765	960	66	58	21	40	320
105	82*	250	125*	4.5	5.7*					3.3	5154	673	48	33.5	11.5	38	230
70	55*	167	83*	6	7.9*					3.3	3142	435	43	44.5*	8	29	161
46	36*	93.5	46.5*	9.2	12.5*					3.4	1871	265	14	26.5	4	32	162
180	134*	333	167*	4.5	5.5*					4	6520	810	310	116*	38	28	132
105	82*	333	167*	7.2	9*					3.7	4054	458	160	66.8*	20.2	26	108
140	110*	500	250*	2.6	3.2*					3.3	10830	1520	97	147*	30	53	438
80	78*	268	134*	11.5						4	4700	400	180	114*	18	53	143
100	78*	268	134*	10.5						4	4700	400	180	114*	18	53	143
140	110*	330	165*	2.5	2.9*					3.2	11800	1360	40	150*	15	32	200
140	110*	333	167*	3	3.2*					3.2	8140	1040	32	95*	5	30	185
140	110*	333	167*	3.2	3.5*					3.2	6960	840	30	75*	5	26	155
140	110*	268	134*	3.5	4*					3.2	5650	720	20	65*	7	27	145
85	85*	268	134*	7.5						4	3800	430	190	33	19	53	98
35	27*	100	50*	18						4	1840	185	80	27.8	6.6	35	47
140	100*	333	166*	7.6						3.7	3069	721	56	69	21	40	355
72	56*	115	57.5*	6.5						3.5	4050	345	16.8	22	5	26	125
72	54*	100	50*	8						3.6	2995	270	10.5	38.5*	3.5	24	115
55	39*	75	37.5*	10.7	13.5					2.5	2007	177	12.5	8.5	2.2	19	69.5
23	18*	41.5	20.5*	19	25					2.5	950	108	7	6	1.6	20	70
105	82*	176	88*	2.9	3.7					2.2	3510	1070	68	22	7	21	58
220	157*	417	208*	4.2						3.7	3568	1388	151	71	23	45	287
120	120	312	156	1.9	2.5					2.3	8320	1438	85	45	7	26	83
20	13*	50		250						4.3	1898	212	15	37*	12	285	3900
11.5	7.3*	36		420						4.5	632	90	7	12.8*	4.3	170	1300
12	8.5*	33	16*	85	100					2.8	1165	61.5	2.5	7	1.2	37	265
13	8*	41	16*	94	100*					4.6	820	70	22	15	4.4	32.5	230
72	58*	48	24*	4.2						4.1	7180	2780	42	90*	21	65	460
41	29*	36.5	18*	10	12.5*					3.4	2785	238	12	37*	5	35	210
33	26*	33	16*	14.5						4.1	1250	727	25	19*	6	39	140
22	15.5*	27	13.5*	24	33					2.7	1190	95	7	7	2.5	30	145
17	12*	23.5	11.5*	34	43					2.7	870	68	3.5	5.5	2	20	88

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AOTF2918L		TO-220F	Single	General Purpose	N	No	No		100	20
AOTF4126		TO-220F	Single	General Purpose	N	No	No		100	25
AOTF286L		TO-220F	Single	General Purpose	N	No	No		80	20
AOTF288L		TO-220F	Single	General Purpose	N	No	No		80	20
AOTF260L		TO-220F	Single	General Purpose	N	No	No		60	20
AOTF266L		TO-220F	Single	General Purpose	N	No	No		60	20
AOTF2606L		TO-220F	Single	General Purpose	N	No	No		60	20
AOTF2610L		TO-220F	Single	General Purpose	N	No	No		60	20
AOTF2618L		TO-220F	Single	General Purpose	N	No	No		60	20
AOTF240L		TO-220F	Single	General Purpose	N	No	No		40	20
AOTF2142L		TO-220F	Single	General Purpose	N	No	No		40	20
AOTF4185		TO-220F	Single	General Purpose	P	No	No		-40	20
AOTF409		TO-220F	Single	General Purpose	P	No	No		-60	20
TO-247										
AOK40N30		TO-247	Single	General Purpose	N	No	No		300	30
AOK60N30		TO-247	Single	General Purpose	N	No	No		300	30
TO-251A										
AOI5N40		TO-251A	Single	High Voltage	N	No	No		400	30
AOI468		TO-251A	Single	General Purpose	N	No	No		300	30
AOI8N25		TO-251A	Single	General Purpose	N	No	No		250	30
AOI294A	***NEW***	**TO-251A**	**Single**	**General Purpose**	**N**	**No**	**No**		**100**	**20**
AOI296A	***NEW***	**TO-251A**	**Single**	**General Purpose**	**N**	**No**	**No**		**100**	**20**
AOI478		TO-251A	Single	General Purpose	N	No	No		100	20
AOI4126		TO-251A	Single	General Purpose	N	No	No		100	25
AOI4286		TO-251A	Single	General Purpose	N	No	No		100	20
AOI442		TO-251A	Single	General Purpose	N	No	No		60	20
AOI444		TO-251A	Single	General Purpose	N	No	No		60	20
AOI2610E	***NEW***	**TO-251A**	**Single**	**General Purpose**	**N**	**No**	**No**		**60**	**20**
AOI4130		TO-251A	Single	General Purpose	N	No	No		60	20
AOI4184		TO-251A	Single	Load Switch	N	No	No		40	20
AOI4185		TO-251A	Single	General Purpose	N	No	No		-40	20
AOI409		TO-251A	Single	General Purpose	N	No	No		-60	20
TO-252										
AOD3N40		TO-252	Single	High Voltage	N	No	No		400	30
AOD3T40P		TO-252	Single	High Voltage	N	No	No		400	30
AOD5N40		TO-252	Single	High Voltage	N	No	No		400	30
AOD5T40P		TO-252	Single	High Voltage	N	No	No		400	30
AOD9N40		TO-252	Single	General Purpose	N	No	No		400	30
AOD9T40P		TO-252	Single	General Purpose	N	No	No		400	30
AOD468		TO-252	Single	General Purpose	N	No	No		300	30
AOD458		TO-252	Single	General Purpose	N	No	No		250	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Qrr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
58	45*	41	20*	7						3.9	2580	1530	37	38*	12	46	230
27	19*	42	21*	24	30*					4	1770	165	55	28*	10	20	82
56	39*	37.5	18.5*	6	8*					3.3	3142	435	43	44.5*	8	29	161
43	30*	35.5	17.5*	9.2	12.5*					3.4	1871	265	14	26.5	4	32	162
92	66.5*	46.5	23.5*	2.6	3*					3.2	11800	1360	40	150*	15	32	200
78	55*	45.5	22.5*	3.5	4*					3.2	5650	720	20	65*	7	27	145
54	38*	36.5	18*	6.5						3.5	4050	345	16.8	22	5	26	125
35	25*	31	15.5*	10.7	13.5					2.5	2007	177	12.5	8.5	2.2	19	69.5
22	16*	23.5	11.5*	19	25					2.5	950	108	7	6	1.6	20	70
85	60*	41	20*	2.9	3.7					2.2	3510	1070	68	22	7	21	58
112	78*	41	20*	1.9	2.5					2.3	8320	1438	85	45	7	26	83
-34	-27*	33	16*	16	20					-2.5	2550	280	190	18.6	8.6	25	75
-24	-17*	43	21*	40	54					-2.4	2461	178	120	19.7	8.9	26.68	167.12
40	25*	357		85						4.1	2718	405	31	60*	21	275	8200
60	40*	658		56						4.1	4438	593	38	88*	28	320	14500
4.2	2.8*	78		1600						4.5	331	42	3	6.9*	2.3*	160	930
11.5	8.3*	150		420						4.5	632	90	7	12.8*	4.3*	170	1300
8	5*	78		560						4.3	306	51	3.2	6*	1.5*	77	290
55	**35***	**73**	**30***	**12**	**15.5**					**2.5**	**2305**	**180**	**11.5**	**15.5**	**5**	**29.5**	**160**
70	**45***	**89**	**35***	**8.3**	**10.6**					**2.3**	**3130**	**245**	**12.5**	**18.5**	**4.5**	**30**	**150**
11	8*	45	23*	140	152					2.8	445	29	16	5.1	2.4	21	97
43	30*	100	50*	24	30*					4	1770	165	55	28*	10	20	82
14	10*	30	15*	68	92					2.9	390	30	3	2.8	1.2	15	53
37	26*	60	30*	20	25					2.7	1920	155	116	24.2	14.4	34	46
12	9*	20	10*	60	85					3	450	61	27	3.8	1.9	27	30
46	**36.5**	**59.5**	**23.5***	**9.5**						**2.4**	**1100**	**300**	**28**	**7**	**3.5**	**19**	**65**
30	20*	52	25*	24	30					2.8	1582	100	67	13.4	7.2	22	76
50	40*	50	25*	8	11					3	1500	215	135	27.2	6.4	29	26
-40	-31*	62.5	31*	15*	20*					-3	2550	280	190	18.6	8.6	38	47
-26	-18*	60	30*	40*	55*					-2.4	2977	241	153	22.2	10	40	59
2.6	1.6*	50		3100						4.5	186	26	2.1	4.2*	1	140	640
2	1.3*	35		3300						5	139	9	1.3	3*	0.6	135	700
4.2	2.8*	78		1600						4.5	331	42	3	6.9*	2.3	160	930
3.9	2.5*	52		1450						5	273	16	1.5	5*	1.4	172	1100
8	5*	125		800						4.5	962	73	8	19.5*	7.1	195	1900
6.6	4.2*	83		800						5	530	30	2.8	9*	1.8	233	2100
11.5	8.3*	150		420						4.5	632	90	7	12.8*	4.3	170	1300
14	10*	150		280						4.5	637	104	7.1	12	4.6	150	1240

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
AOD8N25		TO-252	Single	High Voltage	N	No	No		250	30
AOD450		TO-252	Single	Inverter	N	No	No		200	30
AOD2210		TO-252	Single	General Purpose	N	No	No		200	20
AOD4504		TO-252	Single	General Purpose	N	No	No		200	20
AOD256		TO-252	Single	General Purpose	N	No	No		150	20
AOD2544		TO-252	Single	General Purpose	N	No	No		150	20
AOD4454		TO-252	Single	General Purpose	N	No	No		150	20
AOD464		TO-252	Single	General Purpose	N	No	No		105	25
AOD478		TO-252	Single	General Purpose	N	No	No		100	20
AOD482		TO-252	Single	General Purpose	N	No	No		100	20
AOD294A	***NEW***	**TO-252**	**Single**	**General Purpose**	**N**	**No**	**No**		**100**	**20**
AOD296A	***NEW***	**TO-252**	**Single**	**General Purpose**	**N**	**No**	**No**		**100**	**20**
AOD2910		TO-252	Single	General Purpose	N	No	No		100	20
AOD2910E		TO-252	Single	General Purpose	N	Yes	No		100	20
AOD2916		TO-252	Single	General Purpose	N	No	No		100	20
AOD2922		TO-252	Single	General Purpose	N	No	No		100	20
AOD4126		TO-252	Single	General Purpose	N	No	No		100	25
AOD4286		TO-252	Single	General Purpose	N	No	No		100	20
AOD2810		TO-252	Single	General Purpose	N	No	No		80	20
AOD2816		TO-252	Single	General Purpose	N	No	No		80	20
AOD474B		TO-252	Single	General Purpose	N	No	No		75	20
AOD442		TO-252	Single	General Purpose	N	No	No		60	20
AOD444		TO-252	Single	General Purpose	N	No	No		60	20
AOD2606		TO-252	Single	General Purpose	N	No	No		60	20
AOD2610E	***NEW***	**TO-252**	**Single**	**General Purpose**	**N**	**Yes**	**No**		**60**	**20**
AOD4130		TO-252	Single	General Purpose	N	No	No		60	20
AOD240		TO-252	Single	SMPS	N	No	No		40	20
AOD242		TO-252	Single	General Purpose	N	No	No		40	20
AOD454A		TO-252	Single	General Purpose	N	No	No		40	20
AOD486A		TO-252	Single	Inverter	N	Yes	No		40	20
AOD4184A		TO-252	Single	Inverter	N	No	No		40	20
AOD4186		TO-252	Single	Inverter	N	No	No		40	20
AOD413A		TO-252	Single	General Purpose	P	No	No		-40	20
AOD4185		TO-252	Single	General Purpose	P	No	No		-40	20
AOD4189		TO-252	Single	Inverter	P	No	No		-40	20
AOD407		TO-252	Single	General Purpose	P	No	No		-60	20
AOD409		TO-252	Single	General Purpose	P	No	No		-60	20
AOD603A		TO-252	Complementary	Inverter	N	No	No		60	20
AOD603A		TO-252	Complementary	Inverter	P	No	No		-60	20
AOD609		TO-252	Complementary	Inverter	N	No	No		40	20
AOD609		TO-252	Complementary	Inverter	P	No	No		-40	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Qrr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
8	5*	78		560						4.3	306	51	3.2	6*	1.5	77	290
3.8	2.7*	25	12.5*	700						6	215	32	7.2	3.82*	1.47	59	142
18	13*	100	50*	105	120*					2.5	2065	74	3.8	12	3	60	800
6	4.5*	42.5	21*	400						3.7	328	20.5	8	44	30	35	150
19	13.5*	83	41.5*	85	100					2.8	1165	61.5	2.5	7	1.2	37	265
23	16*	75	37.5*	54	66					2.7	675	78	4	5.5	2.5	37	210
20	14*	100	50*	94	110*					4.6	820	70	22	15*	4.4	32.5	230
40	28*	100	50*	28	31*					4	2038	204	85	38.5*	10	59.6	161
11	8*	45	23*	140	152					2.8	445	29	16	5.1	2.4	21	97
32	22*	100	50*	37	42					2.7	1630	100	50	18	9	32	200
55	**35***	**73**	**30***	**12**	**15.5**					**2.5**	**2305**	**180**	**11.5**	**15.5**	**5**	**29.5**	**160**
70	**45***	**89**	**35***	**8.3**	**10.6**					**2.3**	**3130**	**245**	**12.5**	**18.5**	**4.5**	**30**	**150**
31	21.5*	53.5	26.5*	24	33					2.7	1190	95	7	7	2.5	30	145
37	26*	71.5	35.5*	23	33					2.7	1200	93	6.3	8	2.5	25	120
25	18*	50	25*	34	43.5					2.7	870	68	3.5	5.5	2	20	88
7	5*	17	8.5*	140	176					2.7	250	19	2.5	1.8	0.8	19	52
43	30*	100	50*	24	30*					4	1770	165	55	28*	10	20	82
14	10*	30	15*	68	92					2.9	390	30	3	2.8	1.2	15	53
46	36*	100	50*	8.5	12*					3.4	1871	265	14	26.5*	4	32	162
35	27*	53.5	26.5*	15	29*					3.5	1109	154	9	5	3.2	30	122
10	7*	28.5	14.5*	132	155					2.3	282	30	12	3.2	1.7	15	60
38	26*	60	30*	20	25					3	1920	155	116	24.2	14.4	34	46
12	9*	20	10*	60	85					3	450	61	27	3.8	1.9	27	30
46	36*	150	75*	6.8						3.5	4050	345	16.8	22	5	26	125
46	**36.5***	**59.5**	**23.5***	**9.5**	**13.3**					**2.4**	**1100**	**300**	**28**	**7**	**3.5**	**19**	**65**
30	20*	52	25*	24	30					2.8	1582	100	67	13.4	7.2	22	76
70	55*	150	75*	3	3.9					2.2	3510	1070	68	22	7	21	58
54	42*	53.5	26.5*	5.8	8.2					2.3	1350	405	26	8	2.3	15.5	31
20	15*	37	18*	30	40					3	516	82	43	8.3	1.6	18	10
50	36*	50	25*	9.8	13					3	1600	320	100	10.5	4.8	31	33
50	40*	50	25*	7	9.5					2.6	1500	215	135	14	6	29	26
35	27*	50	25*	15	19					2.7	980	130	80	9	4.5	12	31
-12	-12*	50	25*	44	66					-3	900	97	68	7.2	3.5	21.2	13.8
-40	-31*	62.5	31*	15	20					-3	2550	280	190	18.6	8.5	38	47
-40	-28*	62.5	31*	22	29					-3	1870	185	155	7.9	6.2	32	30
-12	-10*	50	25*	115	150					-3	987	114	46	7.4	3.5	27.5	30
-26	-18*	60	30*	40	55					-2.4	2977	241	153	22.2	10	40	59
12	9.5*	27	13.5*	60	85					3	450	61	27	3.8	1.9	27	30
-12	-9.5*	42.5	21.5*	115	150					-3	960	86	38	7.4	3.5	27.5	30
12	12*	27	14*	30	40					3	516	82	43	8.3	1.6	18	10
-12	-12*	30	15*	45	66					-3	900	97	68	7.2	3.5	21	14

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 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)
TO-262										
AOW2502		TO-262	Single	General Purpose	N	No	No		150	20
AOW292		TO-262	Single	General Purpose	N	No	No		100	20
AOW298		TO-262	Single	General Purpose	N	No	No		100	20
AOW2918		TO-262	Single	General Purpose	N	No	No		100	20
AOW284		TO-262	Single	General Purpose	N	No	No		80	20
AOW482		TO-262	Single	General Purpose	N	No	No		80	25
TO-262F										
AOWF412		TO-262F	Single	General Purpose	N	No	No		100	25
AOWF240L		TO-262F	Single	General Purpose	N	No	No		40	20
TO-263										
AOB254L		TO-263	Single	General Purpose	N	No	No		150	20
AOB256L		TO-263	Single	General Purpose	N	No	No		150	20
AOB2500L		TO-263	Single	General Purpose	N	No	No		150	20
AOB2502L		TO-263	Single	General Purpose	N	No	No		150	20
AOB290L		TO-263	Single	General Purpose	N	No	No		100	20
AOB292L		TO-263	Single	General Purpose	N	No	No		100	20
AOB298L		TO-263	Single	General Purpose	N	No	No		100	20
AOB410L		TO-263	Single	General Purpose	N	No	No		100	25
AOB414		TO-263	Single	General Purpose	N	No	No		100	25
AOB416		TO-263	Single	General Purpose	N	No	No		100	25
AOB1100L		TO-263	Single	High Voltage	N	No	No		100	20
AOB2904	***NEW***	**TO-263**	**Single**	**General Purpose**	**N**	**No**	**No**		**100**	**20**
AOB280L		TO-263	Single	General Purpose	N	No	No		80	20
AOB282L		TO-263	Single	General Purpose	N	No	No		80	20
AOB284L		TO-263	Single	General Purpose	N	No	No		80	20
AOB286L		TO-263	Single	General Purpose	N	No	No		80	20
AOB288L		TO-263	Single	General Purpose	N	No	No		80	20
AOB270AL		TO-263	Single	General Purpose	N	No	No		75	20
AOB470L		TO-263	Single	General Purpose	N	No	No		75	25
AOB260L		TO-263	Single	General Purpose	N	No	No		60	20
AOB266L		TO-263	Single	General Purpose	N	No	No		60	20
AOB1608L		TO-263	Single	Rugged Planar	N	No	No		60	20
AOB2606L		TO-263	Single	General Purpose	N	No	No		60	30
AOB2608L		TO-263	Single	Rugged Planar	N	No	No		60	20
AOB2618L		TO-263	Single	General Purpose	N	No	No		60	20
AOB240L		TO-263	Single	General Purpose	N	No	No		40	20
AOB1404L		TO-263	Single	Rugged Planar	N	No	No		40	20
AOB4184		TO-263	Single	Load Switch	N	No	No		40	20
AOB409L		TO-263	Single	General Purpose	P	No	No		-60	20
AOB411L		TO-263	Single	General Purpose	P	No	No		-60	20

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Qrr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
106	67*	277	111*	10.7						5.1	3010	345	14	43*	10	75	880
105	105*	300	150*	4.1	4.9*					3.4	6775	557	32	90*	13.5	50	380
58	41*	100	50*	14.5						4.1	1250	727	25	19*	6	39	140
90	70*	267	133*	7						3.9	2580	1530	37	38*	12	46	230
105	82*	250	125*	4.3	5.5*					3.3	5154	673	48	71*	11.5	38	230
105	82*	333	167*	7.2	9*					3.7	4054	458	160	66.8*	20.2	26	108
30	20*	33	16*	15.8	19.4*					3.8	2680	260	100	45	15	22	96
83	59*	33.3	16.7*	2.6	3.5					2.2	3510	1070	68	22	7	21	58
32	22.5*	125	62.5*	46	53					2.7	2150	110	4	12	3	51	434
19	13.5*	83	41.5*	85	100					2.8	1165	61.5	2.5	7	1.2	37	265
152	107*	375	187.5*	6.2	7.3*					3.5	6460	586	22	97*	17	90	1090
106	67*	277	111*	10.7						5.1	3010	347	14	43*	10	75	880
140	110*	500	250*	3.2						4.1	7180	2780	42	90*	21	65	460
105	82*	300	150*	4.1						3.4	6775	557	32	90*	13.5	50	380
58	41*	100	50*	14.5						4.1	1250	727	25	19*	6	39	140
150	108*	333	167*	6.2						4	6622	594	215	107*	40	27	177
51	36*	150	75*	25						4	1770	165	55	28*	10	20	82
45	32*	150	75*	36	43*					4	1180	110	36	20*	6.3	19	70
130	92*	500	250*	11.7						3.8	4833	721	35	82*	19	64	880
120	**120***	**326**	**163***	**4.4**						**3.3**	**7085**	**605**	**32**	**93**	**16**	**49**	**460**
140	110*	333	166.5*	2.2	3.1*					3.4	11135	1315	80	160*	28	44	348
105	82*	272.5	136*	3.2	4.9*					3.5	7765	960	66	58	21	40	320
105	82*	250	125*	4.3	5.5*					3.3	5154	673	48	33.5	11.5	38	230
70	55*	167	83*	5.7	7.6*					3.3	3142	435	43	44.5*	8	29	161
46	36*	93.5	46.5*	8.9	12.2*					3.4	1871	265	14	26.5	4	32	162
140	110*	500	250*	2.4	3*					3.3	10830	1520	97	147*	30	53	438
100	78*	268	134*	10.2						4	4700	400	180	114*	18	53	143
140	110*	330	165*	2.2	2.5*					3.2	11800	1360	40	150*	15	32	200
140	110*	268	134*	3.2	3.8*					3.2	5650	720	20	65*	7	27	145
140	100*	333	166*	7.3						3.7	3069	721	56	69	21	40	355
72	56*	115	57.5*	6.2						3.5	4050	345	16.8	22	5	26	125
72	54*	100	50*	7.6						3.6	2995	270	10.5	38.5*	3.5	24	115
23	18*	41.5	20.5*	19	25					2.5	950	108	7	6	1.6	20	70
105	82*	176	88*	2.6	3.5					2.2	3510	1070	68	22	7	21	58
220	157*	417	208*	3.9						3.7	3568	1388	151	71	23	45	287
50	24*	50	25*	10	13					3	1500	215	135	13.6	6.4	19	59
-31.5	-22*	83.3	41.6*	38	50					-2.4	2461	178	120	19.7	8.9	25.7	167
-78	-55*	187	93*	16.5	22					-2.5	5330	483	234	40	18	27	165

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

αMOS™ High Voltage MOSFETs

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
V_{DS} = 500V									
AOT29S50	TO-220	Single	High Voltage	N	No	No		500	30
AOTF29S50	TO-220F	Single	High Voltage	N	No	No		500	30
AOK29S50	TO-247	Single	High Voltage	N	No	No		500	30
AOW29S50	TO-262	Single	High Voltage	N	No	No		500	30
AOB29S50	TO-263	Single	High Voltage	N	No	No		500	30
V_{DS} = 600V									
AOV11S60	DFN8x8	Single	High Voltage	N	No	No		600	30
AOV15S60	DFN8x8	Single	High Voltage	N	No	No		600	30
AOV20S60	DFN8x8	Single	High Voltage	N	No	No		600	30
AOU4S60	TO-251	Single	High Voltage	N	No	No		600	30
AOI11S60	TO-251A	Single	High Voltage	N	No	No		600	30
AOI4S60	TO-251A	Single	High Voltage	N	No	No		600	30
AOI4T60	TO-251A	Single	High Voltage	N	No	No		600	30
AOI4T60P	TO-251A	Single	High Voltage	N	No	No		600	30
AOD11S60	TO-252	Single	High Voltage	N	No	No		600	30
AOD4S60	TO-252	Single	High Voltage	N	No	No		600	30
AOD7S60	TO-252	Single	High Voltage	N	No	No		600	30
AOT11S60	TO-220	Single	High Voltage	N	No	No		600	30
AOT15S60	TO-220	Single	High Voltage	N	No	No		600	30
AOT20S60	TO-220	Single	High Voltage	N	No	No		600	30
AOT27S60	TO-220	Single	High Voltage	N	No	No		600	30
AOT42S60	TO-220	Single	High Voltage	N	No	No		600	30
AOT4S60	TO-220	Single	High Voltage	N	No	No		600	30
AOT7S60	TO-220	Single	High Voltage	N	No	No		600	30
AOTF11S60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF15S60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF20S60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF27S60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF42S60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF42S60L	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF4S60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF7S60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF11N62	TO-220F	Single	High Voltage	N	No	No		620	30
AOK20S60	TO-247	Single	High Voltage	N	No	No		600	30
AOK27S60	TO-247	Single	High Voltage	N	No	No		600	30
AOK42S60	TO-247	Single	High Voltage	N	No	No		600	30
AOK53S60	TO-247	Single	High Voltage	N	No	No		600	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
29	18*	357	150							3.9	1312	88	2.5	26.6*	9.2	387	7300
29	18*	50	150							3.9	1312	88	2.5	26.6*	9.2	387	7300
29	18*	357	150							3.9	1312	88	2.5	26.6*	9.2	387	7300
29	18*	357	150							3.9	1312	88	2.5	26.6*	9.2	387	7300
29	18*	357	150							3.9	1312	88	2.5	26.6*	9.2	387	7300
8	7*	156	500							4.1	545	37.3	1.42	11*	3.8	250	3300
12	9.4*	208	360							3.8	717	58	1.3	15.6*	6	282	4500
18	13*	276	250							4.1	1038	68	2.1	20*	7.6	350	5700
4	3*	56.8	900							4.1	263	21	0.75	6*	1.8	177	1500
11	8.5*	208	399							4.1	545	37.3	1.42	11*	3.8	250	3300
4	3*	56.8	900							4.1	263	21	0.75	6*	1.8	177	1500
4	2.5*	83	2100							5	460	22	3.5	9*	2.4	384	3900
4	2.5*	83	2100							5	460	22	3.5	9*	2.4	384	3900
11	8.5*	208	399							4.1	545	37.3	1.42	11*	3.8	250	3300
4	3*	56.8	900							4.1	263	21	0.75	6*	1.8	177	1500
7	5*	83	600							3.9	372	28	1.2	8.2*	2.8	198	2400
11	8*	178	399							4.1	545	37.3	1.42	11*	3.8	250	3300
15	10*	208	290							3.8	717	58	1.3	15.6*	6	282	4500
20	14*	266	199							4.1	1038	68	2.1	19.8*	7.6	350	5700
27	17*	357	160							4	1294	80	2.3	26*	8.8	440	7500
37	23*	417	109							3.8	2154	135	2.7	40*	11.9	473	10500
4	3.7*	83	900							4.1	263	21	0.75	6*	1.8	177	1500
7	5*	104	600							3.9	372	28	1.2	8.2*	2.8	198	2400
11	8*	38	399							4.1	545	37.3	1.42	11*	3.8	250	3300
15	10*	27.8	290							3.8	717	58	1.3	15.6*	6	282	4500
20	14*	50	199							4.1	1038	68	2.1	19.8*	7.6	350	5700
27	17*	50	160							4	1294	80	2.3	26*	8.8	440	7500
39	25*	50	99							3.8	2154	135	2.7	40*	11.9	473	10500
39	25*	37.9	99							3.8	2154	135	2.7	40*	11.9	473	10500
4	3.7*	83	900							4.1	263	21	0.75	6*	1.8	177	1500
7	5*	34	600							3.9	372	28	1.2	8.2*	2.8	198	2400
11	8*	50	650							4.5	1656	146	11.2	30.6*	9.6	500	5900
20	14*	266	199							4.1	1038	68	2.1	19.8*	7.6	350	5700
27	17*	357	160							4	1294	80	2.3	26*	8.8	440	7500
39	25*	417	99							3.8	2154	135	2.7	40*	11.9	473	10500
53	33*	520	70							3.8	3034	222	3	59*	19	664	14000

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

αMOS™ High Voltage MOSFETs *(Continued)*

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
AOW11S60	TO-262	Single	High Voltage	N	No	No		600	30
AOW15S60	TO-262	Single	High Voltage	N	No	No		600	30
AOW20S60	TO-262	Single	High Voltage	N	No	No		600	30
AOW4S60	TO-262	Single	High Voltage	N	No	No		600	30
AOW7S60	TO-262	Single	High Voltage	N	No	No		600	30
AOWF11S60	TO-262F	Single	High Voltage	N	No	No		600	30
AOWF15S60	TO-262F	Single	High Voltage	N	No	No		600	30
AOWF20S60	TO-262F	Single	High Voltage	N	No	No		600	30
AOWF4S60	TO-262F	Single	High Voltage	N	No	No		600	30
AOWF7S60	TO-262F	Single	High Voltage	N	No	No		600	30
AOB11S60	TO-263	Single	High Voltage	N	No	No		600	30
AOB15S60	TO-263	Single	High Voltage	N	No	No		600	30
AOB20S60	TO-263	Single	High Voltage	N	No	No		600	30
AOB27S60	TO-263	Single	High Voltage	N	No	No		600	30
AOB42S60	TO-263	Single	High Voltage	N	No	No		600	30
AOB4S60	TO-263	Single	High Voltage	N	No	No		600	30
AOB7S60	TO-263	Single	High Voltage	N	No	No		600	30
V_{DS} = 650V									
AOU7S65	TO-251	Single	High Voltage	N	No	No		650	30
AOI7S65	TO-251A	Single	High Voltage	N	No	No		650	30
AOD7S65	TO-252	Single	High Voltage	N	No	No		650	30
AOT11S65	TO-220	Single	High Voltage	N	No	No		650	30
AOT15S65	TO-220	Single	High Voltage	N	No	No		650	30
AOT25S65	TO-220	Single	High Voltage	N	No	No		650	30
AOT7S65	TO-220	Single	High Voltage	N	No	No		650	30
AOTF11S65	TO-220F	Single	High Voltage	N	No	No		650	30
AOTF15S65	TO-220F	Single	High Voltage	N	No	No		650	30
AOTF25S65	TO-220F	Single	High Voltage	N	No	No		650	30
AOTF7S65	TO-220F	Single	High Voltage	N	No	No		650	30
AOW11S65	TO-262	Single	High Voltage	N	No	No		650	30
AOW15S65	TO-262	Single	High Voltage	N	No	No		650	30
AOW25S65	TO-262	Single	High Voltage	N	No	No		650	30
AOW7S65	TO-262	Single	High Voltage	N	No	No		650	30
AOWF11S65	TO-262F	Single	High Voltage	N	No	No		650	30
AOWF15S65	TO-262F	Single	High Voltage	N	No	No		650	30
AOWF25S65	TO-262F	Single	High Voltage	N	No	No		650	30
AOWF7S65	TO-262F	Single	High Voltage	N	No	No		650	30
AOB11S65	TO-263	Single	High Voltage	N	No	No		650	30
AOB15S65	TO-263	Single	High Voltage	N	No	No		650	30
AOB25S65	TO-263	Single	High Voltage	N	No	No		650	30
AOB7S65	TO-263	Single	High Voltage	N	No	No		650	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =					VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
11	8*	178		399						4.1	545	37.3	1.42	11*	3.8	250	3300
15	10*	208		290						3.8	717	58	1.3	15.6*	6	282	4500
20	14*	266		199						4.1	1038	68	2.1	19.8*	7.6	350	5700
4	3.7*	83		900						4.1	263	21	0.75	6*	1.8	177	1500
7	5*	104		600						3.9	372	28	1.2	8.2*	2.8	198	2400
11	8*	28		399						4.1	545	37.3	1.42	11*	3.8	250	3300
15	10*	27.8		290						3.8	717	58	1.3	15.6*	6	282	4500
20	14*	28		199						4.1	1038	68	2.1	19.8*	7.6	350	5700
4	3.7*	83		900						4.1	263	21	0.75	6*	1.8	177	1500
7	5*	25		600						3.9	372	28	1.2	8.2*	2.8	198	2400
11	8*	178		399						4.1	545	37.3	1.42	11*	3.8	250	3300
15	10*	208		290						3.8	717	58	1.3	15.6*	6	282	4500
20	14*	266		199						4.1	1038	68	2.1	19.8*	7.6	350	5700
27	17*	357		160						4	1294	80	2.3	26*	8.8	440	7500
37	23*	417		109						3.8	2154	135	2.7	40*	11.9	473	10500
4	3.7*	83		900						4.1	263	21	0.75	6*	1.8	177	1500
7	5*	104		600						3.9	372	28	1.2	8.2*	2.8	198	2400
7	5*	89		650						4	434	30	17.5	9.2*	2.7	19	2800
7	5*	89		650						4	434	30	17.5	9.2*	2.7	224	2800
7	5*	89		650						4	434	30	17.5	9.2*	2.7	224	2800
11	8*	198		399						4	646	42	1.1	13.2*	4.3	278	4200
15	10*	208		290						4	841	58	1.1	17.2*	5.6	320	5500
25	16*	357		190						4	1278	87	1.4	26.4*	9.5	408	8270
7	5*	104		650						4	434	30	1	9.2*	2.7	224	2800
11	8*	39		399						4	646	42	1.1	13.2*	4.3	278	4200
15	10*	50		290						4	841	58	1.1	17.2*	5.3	320	5500
25	16*	50		190						4	1278	87	1.4	26.4*	9.5	408	8270
7	5*	25		650						4	434	30	17.5	9.2*	2.7	224	2800
11	8*	198		399						4	646	42	1.1	13.2*	4.3	278	4200
15	10*	208		290						4	841	58	1.1	17.2*	5.6	320	5500
25	16*	357		190						4	1278	87	1.4	26.4*	9.5	408	8270
7	5*	104		650						4	434	30	1	9.2*	2.7	224	2800
11	8*	28		399						4	646	42	1.1	13.2*	4.3	278	4200
15	10*	28		290						4	841	58	1.1	17.2*	5.3	320	5500
25	16*	28		190						4	1278	87	1.4	26.4*	9.5	408	8270
7	5*	25		650						4	434	30	1	9.2*	2.7	224	2800
11	8*	198		399						4	646	42	1.1	13.2*	4.3	278	4200
15	10*	208		290						4	841	58	1.1	17.2*	5.3	320	5500
25	16*	357		190						4	1278	87	1.4	26.4*	9.5	408	8270
7	5*	104		650						4	434	30	17.5	9.2*	2.7	224	2800

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Planar High Voltage MOSFETs

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
V_{DS} = 500V									
AOU3N50	TO-251	Single	High Voltage	N	No	No		500	30
AOD3N50	TO-252	Single	High Voltage	N	No	No		500	30
AOD5N50	TO-252	Single	High Voltage	N	No	No		500	30
AOD6N50	TO-252	Single	High Voltage	N	No	No		500	30
AOT12N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT13N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT14N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT14N50FD	TO-220	Single	High Voltage	N	No	No		500	30
AOT16N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT22N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT3N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT5N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT8N50	TO-220	Single	High Voltage	N	No	No		500	30
AOT9N50	TO-220	Single	High Voltage	N	No	No		500	30
AOTF10N50FD	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF12N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF12T50P	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF12T50PL	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF13N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF14N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF14N50FD	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF16N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF22N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF3N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF5N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF5N50FD	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF8N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF8T50P	TO-220F	Single	High Voltage	N	No	No		500	30
AOTF9N50	TO-220F	Single	High Voltage	N	No	No		500	30
AOK22N50	TO-247	Single	High Voltage	N	No	No		500	30
AOW12N50	TO-262	Single	High Voltage	N	No	No		500	30
AOW14N50	TO-262	Single	High Voltage	N	No	No		500	30
AOWF12N50	TO-262F	Single	High Voltage	N	No	No		500	30
AOWF14N50	TO-262F	Single	High Voltage	N	No	No		500	30
AOWF8N50	TO-262F	Single	High Voltage	N	No	No		500	30
AOB12N50	TO-263	Single	High Voltage	N	No	No		500	30
AOB14N50	TO-263	Single	High Voltage	N	No	No		500	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
2.8	1.8*	57		3000						4.7	276	31.4	2.6	6.7*	2.7	134	890
2.8	1.8*	57		3000						4.7	276	31.4	2.6	6.7	2.7	134	890
5	3.1*	104		1600						4.5	538	58	4.5	11.5*	4.1	182	2200
5.3	3.3*	104		1400						4.5	538	58	4.5	11.5*	4.1	182	2200
12	8.4*	250		520						4.5	1361	167	12.6	29.1	20.1	231	2820
13	8.5*	250		510						4.5	1361	167	12.6	30.7*	13	302	4700
14	11*	278		380						4.5	1914	191	16	42.8*	20.3	289	4930
14	9.6*	278		470						4	1654	179	14.5	38.8*	17.5	90	300
16	11*	278		370						4.5	1914	191	16	42.8*	20.3	334	6000
22	15*	417		260						4.5	3086	290	24	69*	24	524	9600
3	1.9*	74		3000						4.5	276	31.4	2.6	6.7*	2.7	134	890
5	3.3*	104		1500						4.5	517	57	4.9	15.5*	7.2	166	1370
9	6*	176		850						4.5	868	93	7.8	23.6*	10.6	206	2100
9	6*	192		850						4.5	868	93	7.8	23.6*	10.6	248	3500
10	6*	50		750						4.2	1030	112	10	29*	9.5	116	300
12	8.4*	50		520						4.5	1361	167	12.6	29.1	20.1	231	2820
12	8*	43		500						5	1477	63	6.3	22*	5.5	428	6100
12	8*	33		500						5	1477	63	6.3	22*	5.5	428	6100
13	8.5*	50		510						4.5	1361	167	12.6	30.7*	13	302	4700
14	11*	50		380						4.5	1914	191	16	44	29	289	4930
14	9.6*	50		470						4	1654	179	14.5	38.8*	17.5	90	300
16	11*	50		370						4.5	1914	191	16	42.8*	20.3	334	6000
22	15*	50		260						4.5	3086	290	24	69*	24	524	9600
3	1.9*	31		3000						4.7	276	31.4	2.6	6.7	2.7	134	890
5	3.3*	35		1500						4.7	517	57	4.9	15.5	7.2	166	1370
5	3*	35		1800						4.2	440	50	4.5	11*	3.8	87	200
9	6*	38.5		850						4.6	868	93	7.8	23.6	10.6	206	2100
8	5.4*	38		810						5	905	42	3.5	13*	3.4	340	3500
9	6*	38.5		850						4.6	868	93	7.8	23.6*	10.6	248	3500
22	15*	417		260						4.5	3086	290	24	69*	24	524	9600
12	8.4*	250		520						4.5	1361	167	12.6	30.7*	13	231	2820
14	11*	278		380						4.5	1914	191	16	42.8*	20.3	289	4930
12	8.4*	28		520						4.5	1361	167	12.6	30.7*	13	231	2820
14	11*	28		380						4.5	1914	191	16	42.8*	20.3	289	4930
8	6*	27.8		850						4.5	868	93	7.8	23.6*	10.6	206	2100
12	8.4*	250		520						4.5	1361	167	12.6	30.7	13	231	2820
14	11*	278		380						4.5	1914	191	16	44	29	289	4930

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Planar High Voltage MOSFETs *(Continued)*

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
V_{DS} = 600V									
AO3162	SOT23-3	Single	High Voltage	N	No	No		600	30
AO3160	SOT23A	Single	High Voltage	N	No	No		600	20
AOU1N60	TO-251	Single	High Voltage	N	No	No		600	30
AOU2N60	TO-251	Single	High Voltage	N	No	No		600	30
AOU2N60A	TO-251	Single	High Voltage	N	No	No		600	30
AOU3N60	TO-251	Single	High Voltage	N	No	No		600	30
AOU4N60	TO-251	Single	High Voltage	N	No	No		600	30
AOI1N60	TO-251A	Single	High Voltage	N	No	No		600	30
AOI2N60	TO-251A	Single	High Voltage	N	No	No		600	30
AOI2N60A	TO-251A	Single	High Voltage	N	No	No		600	30
AOI4N60	TO-251A	Single	High Voltage	N	No	No		600	30
AOI4T60	TO-251A	Single	High Voltage	N	No	No		600	30
AOI4T60P	TO-251A	Single	High Voltage	N	No	No		600	30
AOI7N60	TO-251A	Single	High Voltage	N	No	No		600	30
AOD1N60	TO-252	Single	High Voltage	N	No	No		600	30
AOD2N60	TO-252	Single	High Voltage	N	No	No		600	30
AOD2N60A	TO-252	Single	High Voltage	N	No	No		600	30
AOD3N60	TO-252	Single	High Voltage	N	No	No		600	30
AOD4N60	TO-252	Single	High Voltage	N	No	No		600	30
AOD7N60	TO-252	Single	High Voltage	N	No	No		600	30
AOT10N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT11N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT12N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT12N60FD	TO-220	Single	High Voltage	N	No	No		600	30
AOT1N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT20N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT2N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT3N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT4N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT5N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT7N60	TO-220	Single	High Voltage	N	No	No		600	30
AOT8N60	TO-220	Single	High Voltage	N	No	No		600	30
AOTF10N60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF11N60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF12N60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF12N60FD	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF20N60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF2N60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF4N60	TO-220F	Single	High Voltage	N	No	No		600	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
0.034	0.028	1.39	0.89	500000						4.1	4.2	0.45	0.05	0.7*	0.05	105	9.5
0.04	0.03	1.39	0.89	500000	600000					3.2	10	1.8	0.7	1*	0.52	105	9.5
1.3	0.8*	45		9000						5	130	14.5	1.8	6.1	3.1	114	630
2	1.4*	56.8		4400						5	270	29	2.8	9.5	4.7	154	800
2	1.4*	57		4700						4.5	295	30	2.3	6.5*	1.8	288	1600
2.5	1.6*	56.8		3500						5	304	31.4	3.3	9.9	4.6	175	1400
4	2.6*	104		2300						4.5	528	53	4.8	12*	4.4	190	2400
1.3	0.8*	45		9000						4.5	130	14.5	1.8	6.1	3.1	114	630
2	1.4*	56.8		4400						4.5	270	29	2.8	9.5*	4.7	154	800
2	1.4*	57		4700						4.5	295	30	2.3	6.5*	1.8	268	1600
4	2.6*	104		2300						4.5	528	53	4.8	12*	4.4	190	2400
4	2.5*	83		2100						5	460	22	3.5	9*	2.4	384	3900
4	2.5*	83		2100						5	460	22	3.5	9*	2.4	384	3900
7	4.5*	178		1300						4.5	975	88	7.3	19.3*	6.9	388	4400
1.3	0.8*	45		9000						5	130	14.5	1.8	6.1	3.1	114	630
2	1.4*	56.8		4400						5	270	29	2.8	9.5	4.7	154	800
2	1.4*	57		4700						4.5	295	30	2.3	6.5*	1.8	268	1600
2.5	1.6*	56.8		3500						5	304	31.4	3.3	9.9	4.6	175	1400
4	2.6*	104		2300						4.5	528	53	4.8	12*	4.4	190	2400
7	4.5*	178		1300						4.5	975	88	7.3	19.3*	6.9	388	4400
10	7.2*	250		750						4.5	1320	130	9.3	31.1	14.4	290	3900
11	8*	272		650						4.5	1656	146	11.2	30.6*	9.6	500	5900
12	9.7*	278		550						4.5	1751	164	13	40*	17.9	311	5200
12	8*	278		650						4	1659	166	15.8	41*	19	135	500
1.3	0.9*	41.7		9000						4.5	130	14.5	1.8	6.1	3.1	114	630
20	12*	417		370						4.5	3061	273	22.8	61*	24	480	10500
2	1.7*	74		4400						5	270	29	2.8	9.5	4.7	154	800
2.5	1.9*	59.5		3500						5	304	31.4	3.3	9.9	4.6	175	1400
4	2.7*	104		2200						4.5	511	51	4.4	15	7.6	212	1600
5	3.4*	132		1800						4.5	583	58.4	5.3	16.8	8.5	208	2000
7	4.8*	192		1200						4.5	861	84	6.6	23	11.2	255	2600
8	6.2*	208		900						4.5	1140	109	7.8	28.4	13.4	270	3300
10	7.2*	60		750						5	1320	130	9.3	31.1	14.4	290	3900
11	8*	50		650						4.5	1656	146	11.2	30.6*	9.6	500	5900
12	9.7*	50		550						4.5	1751	164	13	40*	17.9	311	5200
12	8*	50		650						4	1659	166	15.8	41*	19	135	500
20	12*	50		370						4.5	3061	273	22.8	61*	24	480	10500
2	1.7*	31		4400						5	270	29	2.8	9.5	4.7	154	800
4	2.7*	35		2200						4.5	511	51	4.4	15	7.6	212	1600

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Planar High Voltage MOSFETs *(Continued)*

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
AOTF7N60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF7N60FD	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF8N60	TO-220F	Single	High Voltage	N	No	No		600	30
AOTF11N62	TO-220F	Single	High Voltage	N	No	No		620	30
AOK20N60	TO-247	Single	High Voltage	N	No	No		600	30
AOW10N60	TO-262	Single	High Voltage	N	No	No		600	30
AOW11N60	TO-262	Single	High Voltage	N	No	No		600	30
AOW12N60	TO-262	Single	High Voltage	N	No	No		600	30
AOWF10N60	TO-262F	Single	High Voltage	N	No	No		600	30
AOWF11N60	TO-262F	Single	High Voltage	N	No	No		600	30
AOWF12N60	TO-262F	Single	High Voltage	N	No	No		600	30
AOWF4N60	TO-262F	Single	High Voltage	N	No	No		600	30
AOB10N60	TO-263	Single	High Voltage	N	No	No		600	30
AOB11N60	TO-263	Single	High Voltage	N	No	No		600	30
AOB12N60FD	TO-263	Single	High Voltage	N	No	No		600	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =					VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
7	4.8*	38.5		1200						4.5	861	84	6.6	23.2	11.2	255	2600
7	4.7*	39		1450						4.2	826	86	7.9	20*	7.7	76	300
8	6.2*	50		900						4.5	1140	109	7.8	28.4	13.4	270	3300
11	8*	50		650						4.5	1656	146	11.2	30.6*	9.6	500	5900
20	12*	417		370						4.5	3061	273	22.8	61*	24	480	10500
10	7.2*	250		750						4.5	1320	130	9.3	31*	14.4	290	3900
11	8*	272		700						4.5	1656	146	11.2	30.6*	9.6	500	5900
12	9.7*	278		550						4.5	1751	164	13	40*	17.9	311	5200
10	7.2*	28		750						4.5	1320	130	9.3	31*	14.4	290	3900
11	8*	27.8		650						4.5	1656	146	11.2	30.6*	9.6	500	5900
12	9.7*	28		550						4.5	1751	164	13	40*	17.9	311	5200
4	2.6*	25		2300						4.5	528	53	4.8	12*	4.4	190	2400
10	7.2*	250		750						4.5	1320	130	9.3	31	14.4	290	3900
11	8*	272		700						4.5	1656	146	11.2	30.6*	9.6	500	5900
12	8*	278		650						4	1659	166	15.8	41*	19	135	500

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Planar High Voltage MOSFETs *(Continued)*

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
V_{DS} = 650V									
AOI7N65	TO-251A	Single	High Voltage	N	No	No		650	30
AOD7N65	TO-252	Single	High Voltage	N	No	No		650	30
AOT10N65	TO-220	Single	High Voltage	N	No	No		650	30
AOT12N65	TO-220	Single	High Voltage	N	No	No		650	30
AOT7N65	TO-220	Single	High Voltage	N	No	No		650	30
AOT8N65	TO-220	Single	High Voltage	N	No	No		650	30
AOTF10N65	TO-220F	Single	High Voltage	N	No	No		650	30
AOTF12N65	TO-220F	Single	High Voltage	N	No	No		650	30
AOTF18N65	TO-220F	Single	High Voltage	N	No	No		650	30
AOTF7N65	TO-220F	Single	High Voltage	N	No	No		650	30
AOTF8N65	TO-220F	Single	High Voltage	N	No	No		650	30
AOK18N65	TO-247	Single	High Voltage	N	No	No		650	30
AOW10N65	TO-262	Single	High Voltage	N	No	No		650	30
AOW12N65	TO-262	Single	High Voltage	N	No	No		650	30
AOWF10N65	TO-262F	Single	High Voltage	N	No	No		650	30
AOWF12N65	TO-262F	Single	High Voltage	N	No	No		650	30
AOB12N65L	TO-263	Single	High Voltage	N	No	No		650	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =					VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
7	4.3*	178		1560						4.5	982	86	7	19.6*	8.2	365	4300
7	4.3*	178		1560						4.5	982	86	7	19.6*	8.2	365	4300
10	6.2*	250		1000						4.5	1369	118	10	27.7*	11.3	320	6000
12	7.7*	278		720						4.5	1792	152	11.5	39.8*	16.8	375	7500
7	4.4*	192		1500						4.5	887	77	7	19*	8.3	280	4200
8	5.2*	208		1150						4.5	1165	101	9	23.5*	9.5	295	5000
10	6.2*	50		1000						5	1369	118	10	27.7*	11.3	320	6000
12	7.7*	50		720						5	1792	152	11.5	39.8*	16.8	375	7500
18	12*	50		390						4.5	3027	271	22	56*	19.6	655	10000
7	4.4*	38.5		1560						5	887	77	7	19*	8.3	280	4200
8	5.2*	50		1150						5	1165	101	9	23.5*	9.5	295	5000
18	12*	417		390						4.5	3027	271	22	56*	19.6	655	10000
10	6.2*	250		1000						4.5	1369	118	10	27.7*	11.3	320	6000
12	7.7*	278		720						4.5	1792	152	11.5	39.8*	16.8	375	7500
10	6.2*	28		1000						4.5	1369	118	10	27.7*	11.3	320	6000
12	7.7*	28		720						4.5	1792	152	11.5	39.8*	16.8	375	7500
12	7.7*	278		720						4.5	1792	152	11.5	39.8	16.8	375	7500

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Planar High Voltage MOSFETs *(Continued)*

Part Number	Package	Configuration	Popular Application	Type	ESD Diode	Schottky Diode	Schottky Type	V_{DS} (V)	V_{GS} (±V)
V_{DS} = 700V and over									
AOD3N80	TO-252	Single	High Voltage	N	No	No		800	30
AOD2N100	TO-252	Single	High Voltage	N	No	No		1000	30
AOT11N70	TO-220	Single	High Voltage	N	No	No		700	30
AOT7N70	TO-220	Single	High Voltage	N	No	No		700	30
AOT9N70	TO-220	Single	High Voltage	N	No	No		700	30
AOT8N80	TO-220	Single	High Voltage	N	No	No		800	30
AOT3N100	TO-220	Single	High Voltage	N	No	No		1000	30
AOT5N100	TO-220	Single	High Voltage	N	No	No		1000	30
AOTF11N70	TO-220F	Single	High Voltage	N	No	No		700	30
AOTF7N70	TO-220F	Single	High Voltage	N	No	No		700	30
AOTF9N70	TO-220F	Single	High Voltage	N	No	No		700	30
AOTF3N80	TO-220F	Single	High Voltage	N	No	No		800	30
AOTF8N80	TO-220F	Single	High Voltage	N	No	No		800	30
AOTF10N90	TO-220F	Single	High Voltage	N	No	No		900	30
AOTF3N90	TO-220F	Single	High Voltage	N	No	No		900	30
AOTF4N90	TO-220F	Single	High Voltage	N	No	No		900	30
AOTF6N90	TO-220F	Single	High Voltage	N	No	No		900	30
AOTF9N90	TO-220F	Single	High Voltage	N	No	No		900	30
AOTF3N100	TO-220F	Single	High Voltage	N	No	No		1000	30
AOTF5N100	TO-220F	Single	High Voltage	N	No	No		1000	30
AOK8N80	TO-247	Single	High Voltage	N	No	No		800	30
AOK10N90	TO-247	Single	High Voltage	N	No	No		900	30
AOK9N90	TO-247	Single	High Voltage	N	No	No		900	30
AOK5N100	TO-247	Single	High Voltage	N	No	No		1000	30
AOWF11N70	TO-262F	Single	High Voltage	N	No	No		700	30
AOWF9N70	TO-262F	Single	High Voltage	N	No	No		700	30
AOB9N70L	TO-263	Single	High Voltage	N	No	No		700	30

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

I_D (A)		P_D (W)		$R_{DS(ON)}$ (mΩ max) at V_{GS} =						VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
25°C	70°C	25°C	70°C	10V	4.5V	2.5V	1.8V	1.5V	1.2V								
2.8	1.8*	83		4800						4.5	510	39	3.7	10*	2.9	344	2200
2	1.2*	83		9000						4.5	477	31	2.7	9.7*	3.5	287	2200
11	7.2*	271		870						4.5	1793	146	10.5	37.5*	15	400	9000
7	4.2*	198		1800						4.5	978	80	7	20.5*	7.9	270	5900
9	5.8*	236		1200						4.5	1357	113	7.4	28.5*	11.6	375	7500
7.4	4.6*	245		1630						4.5	1375	101	11	26	9.1	484	6000
2.8	1.8*	132		6000						4.5	690	44	5	15	4.7	400	3700
4	2.5*	195		4200						4.5	950	62	6	19*	6.5	450	5500
11	7.2*	50		870						4.5	1793	146	10.5	37.5*	15	400	9000
7	4.2*	38.5		1800						4.5	978	80	7	20.5*	7.9	270	5900
9	5.8*	50		1200						4.5	1357	113	7.4	28.5*	11.6	375	7500
2.8	1.8*	35		4800						4.5	510	39	3.7	10*	2.9	344	2200
7.4	4.6*	50		1630						4.5	1375	101	11	26	9.1	484	6000
10	7*	50		980						4.5	2630	190	18	13*	27	575	9900
2.4	1.5*	35		6700						4.5	444	34	3.3	2.7*	4.1	655	7000
4	2.5*	37		3600						4.5	728	52	5.5	18.4*	8	196	4050
6	3.9*	50		2200						4.5	1196	82	7.8	29*	13	286	5600
9	6*	50		1300						4.5	2130	152	14	9.5*	20.5	586	7800
2.8	1.8*	38		6000						4.5	690	44	5	15	4.7	400	3700
4	2.5*	42		4200						4.5	950	62	6	19*	6.5	450	5500
7.4	4.6*	50		1630						4.5	1375	101	11	26	9.1	484	6000
10	7*	403		980						4.5	2630	190	18	60*	27	575	9900
9	6*	368		1300						4.5	2130	152	14	46*	20.5	568	7800
4	2.5*	42		4200						4.5	950	62	6	19*	6.5	450	5500
11	7.2*	28		870						4.5	1793	146	10.5	37.5*	15	400	9000
9	5.8*	28		1200						4.5	1357	113	7.4	28.5*	11.6	375	7500
9	5.8*	236		1200						4.5	1357	113	7.4	28.5*	11.6	375	7500

* For bottom exposed packages, the I_D and P_D are calculated at 100°C, otherwise at 70°C.
* $R_{DS(ON)}$ measured at V_{GS} other than 10V, 4.5V, 1.8V, 1.5V, or 1.2V.
* Qg measured with V_{GS} = 10V. In all other cases V_{GS} = 4.5V.

Insulated-Gate Bipolar Transistors (IGBTs) — Single

Part Number	Package	Configuration	V_{CE} (max) (V)	I_C (max) (A) 25°C	I_C (max) (A) 100°C	$V_{CE(sat)}$ (typ) (V)	E_{ON} (typ) (mJ)	E_{OFF} (typ) (mJ)	Qg (typ) (nC)
TO-220									
AOTS40B65H1	TO-220	IGBT	650	80	40	1.9	1.27	0.46	63
TO-247									
AOKS40B65H1	TO-247	IGBT	650	80	40	1.9	1.27	0.46	63
AOKS30B60D1	TO-247	IGBT	600	60	30	2	1.1	0.24	34
AOKS40B60D1	TO-247	IGBT	600	80	40	1.85	1.55	0.3	45

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

Part Number	Package	Configuration	V_{CE} (max) (V)	I_C (max) (A) 25°C	I_C (max) (A) 100°C
TO-220					
AOT5B65M1	TO-220	IGBT with Anti-Parallel Diode	650	10	5
AOT10B65M1	TO-220	IGBT with Anti-Parallel Diode	650	10	10
AOT10B65M2	TO-220	IGBT with Anti-Parallel Diode	650	10	10
AOT15B65M1	TO-220	IGBT with Anti-Parallel Diode	650	30	15
AOT20B65M1	TO-220	IGBT with Anti-Parallel Diode	650	40	20
AOT5B60D	TO-220	IGBT with Anti-Parallel Diode	600	10	5
AOT10B60D	TO-220	IGBT with Anti-Parallel Diode	600	20	10
AOT15B60D	TO-220	IGBT with Anti-Parallel Diode	600	30	15
TO-220F					
AOTF5B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	10	5
AOTF10B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	20	10
AOTF10B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	20	10
AOTF15B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	30	15
AOTF15B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	30	15
AOTF20B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	40	20
AOTF20B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	40	20
AOTF5B60D	TO-220F	IGBT with Anti-Parallel Diode	600	10	5
AOTF10B60D	TO-220F	IGBT with Anti-Parallel Diode	600	20	10
AOTF10B60D2	TO-220F	IGBT with Anti-Parallel Diode	600	23	10
AOTF15B60D	TO-220F	IGBT with Anti-Parallel Diode	600	30	15
AOTF15B60D2	TO-220F	IGBT with Anti-Parallel Diode	600	23	15

$V_{CE(sat)}$ (typ) (V)	E_{ON} (typ) (mJ)	E_{OFF} (typ) (mJ)	Qg (typ) (nC)	V_F (typ) (V)	Qrr (typ) (µs)	Irm (typ) (A)
1.57	0.08	0.07	14	1.8	0.24	2.78
1.6	0.18	0.13	24	1.9	0.4	3.8
1.6	0.18	0.13	24	1.6	0.45	4
1.7	0.29	0.2	32	1.77	0.7	4.7
1.7	0.47	0.27	46	1.66	0.8	5.2
1.55	0.14	0.04	9.4	1.46	0.23	4.4
1.53	0.26	0.07	17.4	1.52	0.25	5
1.6	0.42	0.11	25.4	1.43	0.48	5.8
1.57	0.08	0.07	14	1.8	0.24	2.78
1.6	0.18	0.13	24	1.9	0.4	3.8
1.6	0.18	0.13	24	1.6	0.5	4
1.7	0.29	0.2	32	1.77	0.7	4.7
1.7	0.29	0.2	32	1.5	0.7	5.4
1.7	0.47	0.27	46	1.66	0.8	5.2
1.7	0.58	0.28	46	1.56	0.8	5.6
1.55	0.14	0.04	9.4	1.46	0.23	4.4
1.53	0.26	0.07	17.4	1.52	0.25	5
1.55	0.14	0.04	9.4	1.46	0.23	4.4
1.6	0.42	0.11	25.4	1.43	0.48	5.8
1.53	0.26	0.07	17.4	1.52	0.25	5

Insulated-Gate Bipolar Transistors (IGBTs) — Co-Pack *(Continued)*

Part Number		Package	Configuration	V_{CE} (max) (V)	I_C (max) (A)	
					25°C	100°C
TO-247						
AOK20B135D1		TO-247	IGBT with Anti-Parallel Diode	1350	40	20
AOK20B135E1		TO-247	IGBT with Anti-Parallel Diode	1350	40	20
AOK30B135W1		TO-247	IGBT with Anti-Parallel Diode	1350	60	30
AOK20B120E1		TO-247	IGBT with Anti-Parallel Diode	1200	40	20
AOK20B120E2		TO-247	IGBT with Anti-Parallel Diode	1200	40	20
AOK20B120D1		TO-247	IGBT with Anti-Parallel Diode	1200	40	20
AOK30B120D2		TO-247	IGBT with Anti-Parallel Diode	1200	60	30
AOK40B120M1		TO-247	IGBT with Anti-Parallel Diode	1200	80	40
AOK20B65M1		TO-247	IGBT with Anti-Parallel Diode	650	40	20
AOK20B65M2		TO-247	IGBT with Anti-Parallel Diode	650	40	20
AOK30B65M2		TO-247	IGBT with Anti-Parallel Diode	650	60	30
AOK40B65H1		TO-247	IGBT with Anti-Parallel Diode	650	80	40
AOK40B65H2AL	***NEW***	**TO-247**	**IGBT with Anti-Parallel Diode**	**650**	**80**	**40**
AOK40B65M3		TO-247	IGBT with Anti-Parallel Diode	650	80	40
AOK50B65H1		TO-247	IGBT with Anti-Parallel Diode	650	100	50
AOK50B65M2		TO-247	IGBT with Anti-Parallel Diode	650	80	40
AOK60B65H1		TO-247	IGBT with Anti-Parallel Diode	650	120	60
AOK60B65M3		TO-247	IGBT with Anti-Parallel Diode	650	120	60
AOK75B65H1		TO-247	IGBT with Anti-Parallel Diode	650	150	75
AOK10B60D		TO-247	IGBT with Anti-Parallel Diode	600	20	10
AOK15B60D		TO-247	IGBT with Anti-Parallel Diode	600	30	15
AOK20B60D1		TO-247	IGBT with Anti-Parallel Diode	600	40	20
AOK30B60D		TO-247	IGBT with Anti-Parallel Diode	600	60	30
AOK30B60D1		TO-247	IGBT with Anti-Parallel Diode	600	60	30
AOK40B60D		TO-247	IGBT with Anti-Parallel Diode	600	80	40
AOK40B60D1		TO-247	IGBT with Anti-Parallel Diode	600	80	40
AOK50B60D1		TO-247	IGBT with Anti-Parallel Diode	600	100	50
AOK60B60D1		TO-247	IGBT with Anti-Parallel Diode	600	120	60
AOK75B60D1		TO-247	IGBT with Anti-Parallel Diode	600	150	75
TO-252						
AOD5B65M1		TO-252	IGBT with Anti-Parallel Diode	650	10	5
AOD5B65N1		TO-252	IGBT with Anti-Parallel Diode	650	10	5
AOD5B60D		TO-252	IGBT with Anti-Parallel Diode	600	10	5
AOD7B65M3		TO-252	IGBT with Anti-Parallel Diode	650	14	7
TO-263						
AOB5B65M1		TO-263	IGBT with Anti-Parallel Diode	650	10	5
AOB10B65M1		TO-263	IGBT with Anti-Parallel Diode	650	20	10
AOB15B65M1		TO-263	IGBT with Anti-Parallel Diode	650	30	15
AOB5B60D		TO-263	IGBT with Anti-Parallel Diode	600	10	5
AOB10B60D		TO-263	IGBT with Anti-Parallel Diode	600	20	10
AOB15B60D		TO-263	IGBT with Anti-Parallel Diode	600	30	15
AOB20B65M1		TO-263	IGBT with Anti-Parallel Diode	650	40	20

$V_{CE(sat)}$ (typ) (V)	E_{ON} (typ) (mJ)	E_{OFF} (typ) (mJ)	Qg (typ) (nC)	V_F (typ) (V)	Qrr (typ) (µs)	Irm (typ) (A)
1.57		1.05	66	1.46		
1.8		0.8	58	1.6		
1.8		1.47	62	1.6		
1.68		0.83	60.5	1.6		
1.75		0.82	53.5	1.6		
1.54		0.94	67.5	1.33		
1.77		1.28	67	1.5		
1.95	3.87	1.25	140	2.5	1.5	9.3
1.7	0.47	0.27	46	1.66	1.6	7.1
1.7	0.58	0.28	46	1.56	0.8	5.6
1.66	1.02	0.41	63	1.56	1.2	7.4
1.9	1.27	0.46	63	2.22	1	6.2
2.05	**1.17**	**0.54**	**61**	**2.12**	**0.7**	**4.7**
1.95	1.3	0.5	59	2.22	1	6
1.9	1.92	0.85	76	2.25	0.9	6.3
1.95	1.3	0.5	59	2.22	1	6
1.88	2.42	1.17	90	2.08	1.2	7.8
1.94	2.6	1.3	106	1.91	1.3	7.5
1.85	3.77	2.04	109	2.15	1.2	7.9
1.53	0.32	0.07	17.4	1.52	0.25	5
1.6	0.51	0.11	25.4	1.43	0.48	5.8
1.85	0.76	0.18	24.6	1.35	0.43	6.5
1.6	1.18	0.2	47	1.34	0.8	9.5
1.85	1.1	0.24	34	1.47	0.50	7
1.6	1.72	0.3	63.5	1.36	0.86	10
1.85	1.55	0.3	45	1.42	0.63	8
1.85	2.37	0.5	64	1.4	0.77	9
1.85	3.1	0.73	75	1.34	0.84	10
1.72	3.7	1.3	118	1.44	0.9	10
1.57	0.08	0.07	14	1.8	0.24	2.78
2.5	0.081	0.049	9.2	2.13	0.19	2.5
1.6	0.14	0.04	9.4	1.46	0.23	4.4
1.87	0.108	0.099	14	2.6	0.29	3
1.57	0.08	0.07	14	1.8	0.24	2.78
1.6	0.18	0.13	24	1.9	0.4	3.8
1.7	0.29	0.2	32	1.77	0.7	4.7
1.55	0.18	0.09	9.4	1.46	0.23	4.4
1.6	0.26	0.07	17.4	1.52	0.25	5
1.6	0.42	0.11	25.4	1.43	0.48	5.8
1.7	0.47	0.27	46	1.66	0.8	5.2

PACKAGE TYPE

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

WLCSP 1.57x1.57
WLCSP 1.6x1.6

AlphaDFN 0.97x0.97
AlphaDFN 1.57x1.57

AlphaDFN 1.7x1.7

AlphaDFN 2.7x1.8

AlphaDFN 3.55x1.77

DFN 0.6x0.3
DFN 1.0x0.6

DFN 1.3x0.8

DFN 1.6x0.8

DFN 1.2x1.0
DFN1.45x1.0
DFN1.6x1.0

DFN1.2x1.6
DFN 1.8x1.2

DFN 1.6x1.6

DFN 2x2

DFN 2.5x1.0

DFN 2.5x1.2

DFN 2.6x2.6

DFN 2x5

DFN 3x1.35

DFN 3x2

DFN 3x3

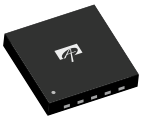
DFN 3.3x3.3

DFN 3.5x1.2

DFN 3.5x2.5

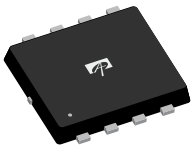
DFN 4x1.6

DFN 4x3



DFN 4x4

DFN 5x4



DFN 5x6

DFN 8x8

QFN 1.8x2.6

QFN 2.1x1.6

QFN 3x3

QFN 3.5x5

QFN 4x4

QFN 5x5

QFN 6x6

NOTE: Images are not to scale

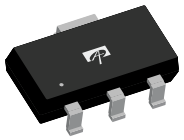
requirements of our customers. We offer a range of package options to support a wide spectrum of end-applications, from

SC-70
2.1x1.3

SC-89
1.6x1.2

SOT-23
2.9x1.6

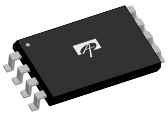
SOT-143
2.8x1.2



SOT-223
6.5x3.4

MSOP-8
3x3

TSOP-6
2.9x1.6



SSOP-8
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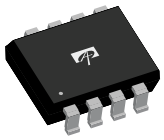
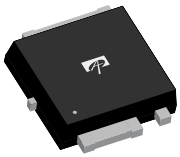
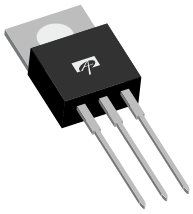


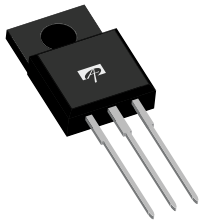
SO-8
4.9x3.9



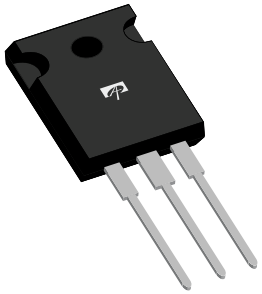
Ultra SO-8
5.11x5.0



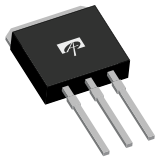
TO-220
10.03x15.44
(28.26 w/leads)



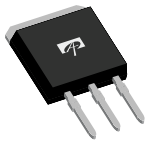
TO-220F
10.16x15.87
(28.86 w/leads)



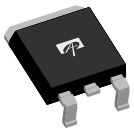
TO-247
15.8x21
(40.92 w/leads)



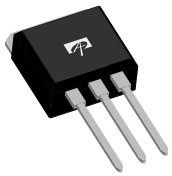
TO-251
6.5x5.55
(14.75 w/leads)



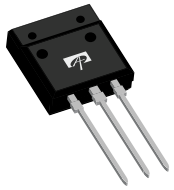
TO-251A/B
6.6x6.1
(9.73 w/leads for A)
6.6x6.1
(10.48 w/leads for B)



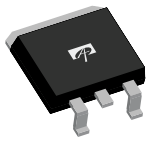
DPAK (TO-252)
6.6x6.1
(10.03 w/leads)



I²PAK (TO-262)
10.15x8.78
(22.45 w/leads)



I²PAK (TO-262F)
10.15x8.78
(22.45 w/leads)



D²PAK (TO-263)
9.14x10.03
(15.24 w/leads)

NOTE: Images are not to scale

LEFT BLANK INTENTIONALLY

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