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Alpha & Omega Semiconductor Broadens Portfolio with High Voltage MOSFET Family

New 600V MOSFETs Feature High Robustness and Reduced Switching Losses

Sunnyvale, Calif, August 12, 2008 – Alpha & Omega Semiconductor, Inc. (AOS) today announced the release of ten 600V-rated MOSFETs. The announcement represents a significant addition to AOS' extensive portfolio of low voltage trench MOSFETs. The new 600V devices are ideally suited for use in AC-DC power supplies and adapters used for desktop and notebook PCs, LCD TVs, and handheld devices such as cellular phones and PDAs.

The new MOSFETs allow high efficiency power conversion with reduced switching losses by offering an optimized combination of low $R_{DS(ON)}$ and C_{RSS} . A wide range of applications can be supported with current ratings from 1A, in the form of AOD1N60, to 12A in the forms of AOT12N60 and AOTF12N60.

“We are delighted to offer these new 600V MOSFETs to our customers. This is the first stage of a comprehensive product release that will allow AOS to offer a complete range of products to support AC-DC power conversion applications,” said David Grey, Marketing Director of MOSFETs at AOS.

“There is growing demand for the new Bronze, Silver and Gold 80 Plus certifications for higher efficiency power supplies. By developing high performance high voltage MOSFETs, in conjunction with lower voltage synchronous rectifiers, AOS will be able to provide power supply designers with advanced total MOSFET solutions,” said Grey.

Technical Highlights

The high voltage MOSFETs were developed to reduce switching losses through lowering the C_{RSS} . In addition, robustness was “designed in” with high avalanche energy capability that is also guaranteed through 100% final testing.

The devices are available in three industry-standard packages: DPAK, TO-220 and the electrically isolated TO-220F.

Pricing and Availability

The high voltage MOSFET family is available immediately in production quantities. The table below shows brief specifications and pricing.

Part No	Package	V _{DS} (V)	R _{DS(ON)} (Ω max)	C _{RSS} (pF)	I _{DS} (A)	1K Price
AOD1N60	DPAK	600	8.8	2.3	1.3	\$0.35
AOT1N60	TO-220					\$0.39
AOT3N60	TO-220	600	3.5	4.3	2.5	\$0.50
AOT5N60	TO-220	600	1.8	5.9	5	\$0.68
AOT8N60	TO-220	600	0.9	8	8	\$0.95
AOTF8N60	TO-220F					
AOT10N60	TO-220	600	0.75	9	10	\$1.05
AOTF10N60	TO-220F					
AOT12N60	TO-220	600	0.55	13	12	\$1.20
AOTF12N60	TO-220F					

About AOS

Alpha & Omega Semiconductor, Inc. is a fabless semiconductor company that develops leading-edge analog power management solutions. AOS offers a wide portfolio of [Power MOSFET](#), [Power IC](#) and [Transient Voltage Suppressor](#) products that incorporate advances in device design, silicon and packaging technologies. AOS' products meet the ever-increasing performance and power efficiency requirements in high-volume consumer applications such as portable and desktop computers, digital cameras, cell phones and LCD panels. For more information, please visit www.aosmd.com.

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