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## **Alpha & Omega Semiconductor Enables Green Power Supplies with Optimized Medium Voltage Power MOSFETs**

*Low  $R_{DS(ON)}$  80-100V MOSFETs in Halogen-Free Packages  
Boost Efficiency in Power Supply Applications*

**SUNNYVALE, Calif, November 23, 2009** – Alpha & Omega Semiconductor, Inc. (AOS) today announced extensions to their high performance SDMOS™ family with new 80V and 100V MOSFETs. The AOT410 and AOT480 are ideal choices for high current synchronous rectifiers in server, ATX, UPS and other high efficiency AC-DC power supplies.

The new devices are fabricated on AOS' proprietary SDMOS™ trench technology. The low on-resistance and Soft Diode characteristics of the MOSFETs are tuned to deliver the optimal combination of high efficiency and low noise operation.

“By considering all the major power loss mechanisms, we were able to balance the characteristics of the AOT410 and AOT480 to deliver exceptional performance in power conversion applications. The products offer the advantage of a low Qrr, soft recovery body diode to improve dead-time operation and reduce noise in hard switched topologies,” said David Grey, Marketing Director for AOS' MOSFET products.

### **Technical Highlights**

- Low  $R_{DS(ON)}$  - AOT410 (100V, 6.5m $\Omega$ ) and AOT480 (80V, 4.5m $\Omega$ )
- Low Ciss, <6.7nF and low Rg <1 $\Omega$  – Well suited for typical gate drive circuitry, especially when devices are used in parallel
- Low thermal resistance with high peak current and energy capability
- Robust operation in short circuit and over voltage adverse operating conditions
- Fully UIS characterized and 100% avalanche tested at 80A
- Low Qrr and Irm body diode fully characterized up to 800A/us
- Halogen-free package “Green” products

### **Pricing and Availability**

Both devices are housed in the TO220 package and are available immediately in production quantities. The unit price of 1,000 pieces is as follows: AOT480L at US\$1.72, AOT410L at US\$1.76.

### **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, Analog Switch 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 computing and consumer applications such as portable and desktop computers, digital cameras, cell phones, and LCD TVs. AOS has offices worldwide including the United States, China, Hong Kong, Taiwan and South Korea. For more information, please visit [www.aosmd.com](http://www.aosmd.com)

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