

**FOR IMMEDIATE RELEASE**

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## Alpha and Omega Semiconductor's New 75V and 80V MOSFETs Deliver Industry-Leading Performance for Power Supply Designs

*Lowest  $R_{DS(ON)} * C_{OSS}$  figure of merit in the market enables higher efficiency solutions*

**SUNNYVALE, Calif., Feb. 7, 2012** – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, today announced the release of AON6270 and AON6280, the flagship devices in its new 75V and 80V AlphaMOS ( $\alpha$ MOS™) medium voltage portfolios. The new product expands AOS' medium voltage MOSFET portfolio and enhances its solutions for high performance power supplies. AON6270 and AON6280 are well suited for a wide range of applications that are pushing the limits of efficiency such as secondary side synchronous rectification in DC/DC and AC/DC converters, primary side switching in telecom and industrial DC/DC converters, POL modules for telecom systems, motor drives, UPS, and industrial automation tools.

Power supply designers can now improve efficiencies even further through the lower conduction and switching losses made possible by AON6270 and AON6280. These new devices deliver the best figure-of-merit for  $R_{DS(ON)} * C_{OSS}$ , which is 34% and 29% better than the current leading competitors, respectively. The low output capacitances in combination with low  $Q_g$  reduce MOSFET switching losses. These devices are available in the compact size DFN5x6 green package and are 100% Rg and UIS tested.

“High efficiency power designs require strong performance for MOSFETs in both switching and conduction modes.” said Stephen Chang, Sr. Product Marketing Manager at AOS. “AON6270 and AON6280 deliver not only very low  $R_{DS(ON)}$ , but also provide optimal  $C_{OSS}$  to help designers meet energy efficiency standards and regulations.”

### AON6270 Technical Highlights

- 75V N-channel MOSFET in the DFN5x6 package
- $R_{DS(ON)} < 3.9$  mOhms at  $V_{GS} = 10V$
- $C_{OSS} = 615$  pF typ
- $Q_g (10V) = 60$  nC typ
- Lowest  $R_{DS(ON)} * C_{OSS}$  figure of merit in the market

### AON6280 Technical Highlights

- 80V N-channel MOSFET in the DFN5x6 package
- $R_{DS(ON)} < 4.1$  mOhms at  $V_{GS} = 10V$
- $C_{OSS} = 592$  pF typ
- $Q_g (10V) = 58$  nC typ
- Lowest  $R_{DS(ON)} * C_{OSS}$  figure of merit in the market
- Lowest  $R_{DS(ON)} * Q_g$  figure of merit in the market

### Pricing and Availability

Both AON6270 and AON6280 are immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces of each device is \$1.184.

**About AOS**

Alpha and Omega Semiconductor Limited, or [AOS](#), is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#) and [Power IC](#) products. AOS seeks to differentiate itself by integrating its expertise in device physics, process technology, design and advanced packaging to optimize product performance and cost, and its product portfolio is designed to meet the ever increasing power efficiency requirements in high volume applications, including portable computers, flat panel TVs, battery packs, smart phones, portable media players, UPS, motor control and power supplies. For more information, please visit [www.aosmd.com](http://www.aosmd.com).

**Forward Looking Statements**

This press release contains forward-looking statements that are based on current expectations, estimates, forecasts and projections of future performance based on management's judgment, beliefs, current trends and anticipated product performance. These forward-looking statements include, without limitation, references to the efficiency and capability of new products, and the potential to expand into new markets. Forward looking statements involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. These factors include, but are not limited to, the actual product performance in volume production, the quality and reliability of the product, our ability to achieve design wins, the general business and economic conditions, the state of the semiconductor industry, and other risks as described in the Company's annual report and other filings with the U.S. Securities and Exchange Commission. Although the Company believes that the expectations reflected in the forward looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. You should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's date, unless otherwise stated, and AOS undertakes no duty to update such information, except as required under applicable law.

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