

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor's New 100V AON6290 Delivers Industry-Leading Performance for Telecom Power

Lowest on-resistance and best switching performance maximize system efficiencies

SUNNYVALE, Calif., July 31, 2012 – [Alpha and Omega Semiconductor Limited](http://www.aosmd.com) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, today announced the release of [AON6290](#), the flagship device in its new 100V AlphaMOS™ (α MOS™) medium voltage portfolio. The new product expands AOS' medium voltage MOSFET portfolio and enhances its solutions for high performance power supplies. The AON6290 is 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 and secondary side switching in telecom and industrial DC/DC converters, and POL modules for telecom systems.

AON6290 combines industry-leading on-resistance with fast switching performance. The on-resistance of this device is 68% lower than the previous generation of products and is 5% lower than the leading 100V device found in the market today. Furthermore, AON6290 delivers excellent switching performance with key figure-of-merits for $R_{DS(ON)} * Q_g$, $R_{DS(ON)} * C_{ISS}$ and $R_{DS(ON)} * C_{OSS}$ that are 5%, 3%, and 50% better than the current leading competitor, respectively. The benefit of this performance is that power supply designers do not need to compromise switching performance in order to reap the benefits of low on-resistance. These devices are available in a compact size DFN5x6 green package and are 100% Rg and UIS tested.

“Switching and conduction performance both need to be optimized in power designs in order to maximize total system efficiency.” said Stephen Chang, Sr. Product Marketing Manager at AOS. “AON6290 delivers the best of both worlds with industry-leading $R_{DS(ON)}$ in combination with low gate charge, input capacitance, and output capacitance.”

AON6290 Technical Highlights

- 100V N-channel MOSFET in a DFN5x6 package
- $R_{DS(ON)}$ typical = 3.8mOhms (lowest in industry)
- $R_{DS(ON)} < 4.6$ mOhms at $V_{GS} = 10V$
- $C_{OSS} = 415$ pF typical
- $Q_g (10V) = 63$ nC typical
- Lowest $R_{DS(ON)} * C_{ISS}$ figure-of-merit in the market
- Lowest $R_{DS(ON)} * C_{OSS}$ figure-of-merit in the market

Pricing and Availability

The AON6290 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces 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.

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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