

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Introduces New 40V 0.99mOhm MOSFET in a DFN5x6 Package

Ultra-low on-resistance and robust switching performance enable more compact power designs

SUNNYVALE, Calif., December 18, 2014 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors and power ICs, today announced the release of [AON6590](#), the flagship device in its new 40V medium voltage portfolio. The AON6590 is designed to address a wide range of applications including primary-side and secondary-side switching in telecom and industrial DC/DC converters, secondary-side synchronous rectification in DC/DC and AC/DC converters, as well as POL modules for telecom systems.

The AON6590 is the lead product in what will be a new portfolio of 40V products that are optimized for switching power conversion. Compared to previous generations, this new product improves on-resistance by 30% which reduces conduction losses and allows lower case temperatures during heavy load operation. AON6590 also offers low output capacitance, reducing turn-off energy loss, thus enabling higher efficiencies in hard-switched applications. In addition to the performance benefits, this device has been designed with a robust UIS capability to handle extreme conditions such as output short circuits or start-up phases. The AON6590 is available in a compact DFN5x6 power package.

"AON6590 marks a new generation of products designed to enable rugged system solutions with higher power density. The new device allows our customer to design power supplies that run cooler and improve overall system reliability." said Stephen Chang, Sr. Product Marketing Director at AOS.

AON6590 Technical Highlights

- 40V N-channel MOSFET in a DFN5x6 package
- $R_{DS(ON)} < 0.99$ mOhms max at $V_{GS} = 10V$
- $R_{DS(ON)} < 1.5$ mOhms max at $V_{GS} = 4.5V$
- $C_{OSS} = 1438$ pF typ
- $Q_g (10V) = 100$ nC typ
- 100% Rg and UIS tested

Pricing and Availability

The AON6590 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces is \$1.11.

About AOS

Alpha and Omega Semiconductor Limited, or [AOS](http://www.aosmd.com), 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 us 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 portfolio of products targets high-volume applications, including portable computers, flat panel TVs, LED lighting, smart phones, battery packs, consumer and industrial motor controls and power supplies for TVs, computers, servers and telecommunications equipment. 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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