

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor's New 80V and 100V MOSFETs Offer Industry's Lowest On-Resistance in a DFN3.3x3.3 Package

Compact solutions that deliver power density while saving board space for telecom applications

SUNNYVALE, Calif., Dec. 21, 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 [AON7280](#) and [AON7290](#), the newest additions to its new 80V and 100V AlphaMOS™ medium voltage portfolio. These new products are well suited for a wide range of applications that include secondary side synchronous rectification in DC/DC and AC/DC converters, POL modules for telecom systems, and POE networking applications.

Built using AOS proprietary AlphaMOS technology, the 80V AON7280 and 100V AON7290 offer ultra-low $R_{DS(ON)}$ that are 27% and 10% better than the leading competitors, respectively. The low on-resistance minimizes conduction losses and allows the device to operate at lower temperatures. This was achieved without compromising switching performance as both devices offer the lowest $R_{DS(ON)} * C_{OSS}$ in the industry. These solutions are packaged in a green DFN3.3x3.3 package, giving circuit designers flexibility in board-space critical applications.

“When constructing efficient power solutions in tight spaces, designers turn to high performance MOSFETs in smaller packages.” said Stephen Chang, Sr. Product Marketing Manager at AOS. “AON7280 and AON7290 combine high density AlphaMOS technology with a compact DFN3.3x3.3 package to meet the needs of those designers.”

AON7280 Technical Highlights

- 80V N-channel MOSFET
- $R_{DS(ON)} < 8.5$ mOhms max at $V_{GS} = 10V$ (Lowest in industry)
- $C_{OSS} = 265$ pF typ
- $Q_g (10V) = 26$ nC typ
- Lowest $R_{DS(ON)} * Q_g$ figure-of-merit in the market
- Lowest $R_{DS(ON)} * C_{OSS}$ figure-of-merit in the market
- 100% Rg and UIS tested

AON7290 Technical Highlights

- 100V N-channel MOSFET
- $R_{DS(ON)} < 12.6$ mOhms max at $V_{GS} = 10V$ (Lowest in industry)
- $C_{OSS} = 175$ pF typ
- $Q_g (10V) = 26.5$ nC typ
- Lowest $R_{DS(ON)} * C_{OSS}$ figure-of-merit in the market
- 100% Rg and UIS tested

Pricing and Availability

Both AON7280 and AON7290 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 \$0.61.

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](#), [IGBT](#) and [Power IC](#) products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry. 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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