

FOR IMMEDIATE RELEASE

Media Contact: Martha Aparicio
Tel: 408.789.3233
Email: martha.aparicio@aosmd.com

Alpha and Omega Semiconductor's New 100V MOSFETs Offer Significantly Better Conduction and Switching Performance

Industry leading combination of low on-resistance and low gate-charge delivers higher efficiency

SUNNYVALE, Calif., Aug. 9, 2011 – [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 [AOT290L](#) and [AOT2918L](#), the first two parts in a new line of 100V MOSFET products aimed to push the boundaries of high-efficiency MOSFET devices. By taking advantage of major enhancements in device technology, these new devices offer designers exciting new opportunities to build higher efficiency power supply solutions that meet increasingly stringent green product requirements.

“With the introduction of these new products and technology, our medium voltage MOSFET product portfolio is further strengthened,” said Dr. Mike Chang, President and CEO of AOS. “This development is strategically important to us as we strive to become a full-service power semiconductor solution provider. These products will allow us to expand our serviceable available markets (SAM), especially in the Telecom, Datacom and Power Supply segments.”

The AOT290L offers an industry-leading figure of merit ($R_{DS(ON)} * Q_g$) of 243mOhm-nC that is 15% better than the current leading competitor. AOS also offers a higher ohmic version with the AOT2918L. Both products are well suited for medium voltage primary-side power supply applications and are available in TO-220 as well as in D²PAK Green package options with 100% Rg and UIS testing.

“Designers of DC-DC converters aim to reduce power consumption by minimizing losses during conduction and switching.” said Yalcin Bulut, Vice President of Low Voltage and Medium Voltage Product Lines at AOS. “Our new 100V MOSFETs are optimized to deliver both very low on-resistance and very low Qg in order to achieve overall high efficiency.”

Technical Highlights

AOT290L

- 100V N-channel MOSFET in TO-220 package
- Also available in the D²PAK package as AOB290L
- $R_{DS(ON)} < 3.5$ mOhms at $V_{GS} = 10V$
- $C_{RSS} = 42$ pF typ
- $Q_g (10V) = 90$ nC typ
- Lowest $R_{DS(ON)} * Q_g$ figure of merit in the market

AOT2918L

- 100V N-channel MOSFET in TO-220 package
- Also available in the D²PAK package as AOB2918L
- $R_{DS(ON)} < 7$ mOhms at $V_{GS} = 10V$
- $C_{RSS} = 37$ pF typ
- $Q_g (10V) = 38$ nC typ

Pricing and Availability

AOT290L/AOB290L and AOT2918L/AOB2918L are immediately available in production quantities with a lead-time of 12-14 weeks. The unit prices for 10,000 pieces are as follows:

AOT290L/AOB290L: \$1.75

AOT2918L/AOB2918L: \$1.01

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](#) 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 their 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.

###