

FOR IMMEDIATE RELEASE

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

Alpha and Omega Semiconductor Rolls Out New Family of 25V and 30V High Performance MOSFETs in Compact 3x3mm Footprint

Helping designers achieve high efficiency DC/DC conversion for high switching frequency applications

SUNNYVALE, Calif., July 2, 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 six new 25V and 30V MOSFETs ([AON7760](#), [AON7510](#), [AON7758](#), [AON7764](#), [AON7536](#), and [AON7538](#)), the latest additions to the low voltage portfolio in compact 3 x 3mm DFN packages. These devices are ideally suited for a variety of DC/DC step-down conversion solutions for personal computing, gaming, servers, and telecom/datacom applications.

The new devices use AOS’s proprietary power trench MOSFET technology to accomplish an exceptionally low figure-of-merit ($R_{DS(ON)} \times Q_g$) for fast switching applications such as the latest DC/DC converters that operate over 600KHz. The AON7536 is optimized for high-side switching by minimizing Q_g and C_{rss} , thus, lowering the switching power losses. When paired with the AON7760, AON7536 can achieve 90% efficiency at 15A for a 12V input and 1.8V output. This new 3x3 DFN family has a 20% figure-of-merit improvement from the previous generation. While keeping the same on-resistance, designers can enjoy the 20% lower Q_g to operate at a higher switching frequency. In addition to the DC/DC applications, the AON7510’s ultra low $R_{DS(ON)}$ 1.3m Ω (max) @ 10V is ideal for conduction loss critical applications such as those with a high current system switch, load switch, or motor drive.

“Whether the designs are fast switching or turn-on/off applications, AOS’s new DFN 3x3mm MOSFETs are able to minimize both switching and conduction loss for a cooler and more efficient operation in a common industry footprint.” said George Feng, Senior Manager of Product Marketing.

AON7760, AON7510, AON7758, AON7764, AON7536, and AON7538 are all Halogen-Free and RoHS compliant.

Device Specification Table

Part Number	V _{DS}	V _{GS}	Max R _{DS(ON)}		Q _g (typ)	Schottky	Package Dimension	Pricing*
			@ 10V	@ 4.5V	@4.5V			
AON7760	25	±16	2.0m Ω	2.9m Ω	23 nC	√	3.3mmx3.3mm	\$0.60
AON7510	30	±20	1.3m Ω	2.1m Ω	60 nC		3.3mmx3.3mm	\$0.75
AON7758	30	±20	1.9m Ω	2.4m Ω	29 nC	√	3.3mmx3.3mm	\$0.63
AON7764	30	±20	3.2m Ω	4.8m Ω	13.2 nC	√	3mmx3mm	\$0.405
AON7536	30	±20	4.2m Ω	6.2m Ω	12.7 nC		3.3mmx3.3mm	\$0.54
AON7538	30	±20	5.1m Ω	8.2m Ω	7.4 nC		3mm x 3mm	\$0.219

Availability

All devices are immediately available in production quantities with a lead-time of 12-14 weeks.

* The unit price for 1,000 pieces.

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.

###