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Photo Release -- Alpha and Omega Semiconductor Introduces New PairFET(TM) Devices for Telecom and Advanced Computing Solutions

New MOSFETs Help Designers Achieve Highest Power Density and Efficiency

SUNNYVALE, Calif., June 28, 2013 (GLOBE NEWSWIRE) -- [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 released [AON6970](#) and [AON6978](#), high power density 30V PairFET™ devices, both in an asymmetric dual (high-side and low-side integrated MOSFETs) DFN5x6 package. The devices are ideally suited for high performance DC/DC solutions for networking point-of-load (POL) converters, servers, advanced notebooks, desktops, all-in-one PCs as well as isolated DC/DC converters in telecom and industrial applications.

A photo accompanying this release is available at <http://www.globenewswire.com/newsroom/prs/?pkgid=19643>

Developed with AlphaMOS™ technology, the new PairFETs feature ultra-low Rds(on) and gate charge to operate at a higher switching frequency — producing highly-efficient solutions in a compact DFN5x6 package. The PairFET's asymmetric configuration improves performance by allowing the size of the low-side MOSFET to be increased for lowest conduction loss. The combination of AlphaMOS low voltage technology and the effective package configuration of the PairFET devices allow the AON6970 to offer on-resistance as low as 2.3mO max at Vgs=4.5V on the low side.

"AOS's new PairFET MOSFETs help simplify power designs and save space in high efficiency synchronous buck single and multi-phase DC/DC converters by providing an optimized combination of high-side and low-side MOSFETs in a single compact package," said Yalcin Bulut, Vice President of Discrete Product Lines at AOS.

The AON6970 and AON6978 devices are 100% Rg and UIS tested, and are RoHS and Halogen-Free compliant.

Device Specification Table

AON6970	V _{DS}	V _{GS}	R _{DS(ON)}		Q _g (typ)	ID	
						@ T _A =25 degree C	@ T _A =100 degree C
			@ 10V	@ 4.5V			
HS	30	±20	5.4mOHM	8.5mOHM	8	58A	36A
LS	30	±20	1.5mOHM	2.3mOHM	27	85A	66A
AON6978							
HS	30	±20	5.7mOHM	9.4mOHM	6.8	28A	22A
LS	30	±12	3.8mOHM	4.9mOHM	20.6	36A	28A

Availability

The AON6970 and AON6978 are immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 1,000 pieces is \$1.20 and \$0.63, respectively.

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, 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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New 30V PairFET