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Alpha and Omega Semiconductor Announces Shield Gate Technology Generation 2 100V 3.6mOhm MOSFET for High-Density Power Supply Solutions

Best performance for isolated DC-DC primary and secondary MOSFET solutions

SUNNYVALE, Calif., Nov. 08, 2017 (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 announced the release of [AONS66916](#) production utilizing the latest Alpha Shield Gate Technology Generation 2 (AlphaSGT2). The AONS66916 has best-in-class $R_{DS(ON)} * Q_g$ (FOM) and more robust capability for a greater safety margin. In synchronous rectification, it is essential to optimize the reverse recovery charge and reduce the voltage overshoot. These attributes enable higher efficiency and robustness to critical high density telecom and server applications.

A photo accompanying this announcement is available at <http://www.globenewswire.com/NewsRoom/AttachmentNg/79f70675-3ebd-4d86-a9c9-7305e251c129>

The AlphaSGT2 provides ~30% lower $R_{DS(ON)}$ compared to AlphaSGT1 and is designed to be more robust with significant avalanche energy improvement. AlphaSGT2 technology reduces both conduction and switching losses. Thus, with AlphaSGT2 technology, circuit designers can prevent paralleling devices for lower turn-on resistance, enabling higher power density in power supply applications.

"The new AlphaSGT2 100V technology is designed for critical applications such as Telecom and Datacom power supplies where power density, high efficiency, and robustness is essential," said Peter H. Wilson, Director of Product Marketing at AOS.

Technical Highlights

Part Number	V_{DS} (V)	V_{GS} (V)	$R_{DS(ON)MAX}$ (mOhms)	Q_g (typ) (nC)	$I_D @ T_A = 25^\circ C$ (A)
			@ 10V		
AONS66916	100	± 20	3.6	67	100

Pricing and Availability

The AONS66916 is immediately available in production quantities with a lead-time of 15 weeks. The unit price of 1,000 pieces is \$ 1.2.

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](#), [IPM](#) 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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