



Alpha and Omega Semiconductor Announces the Newest Generation of XSPairFET™ in DFN 3.3x3.3 Package

January 30, 2018

Optimal power efficiency using latest package technology sets a new industry standard for high power density applications

SUNNYVALE, Calif., Jan. 30, 2018 (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 introduced [AONE36132](#), a 25V N-Channel MOSFET in a dual DFN 3.3x3.3 package which is ideal for synchronous buck converters. The AONE36132 is an extension to the XSPairFET™ lineup. Designed with the latest bottom source packaging technology, the AONE36132 has lower switch node ringing due to lower parasitic inductance. This new XSPairFET™ offers a higher power density compared to existing solutions and is ideally suited for computing, server and telecommunication markets.

AONE36132 has an integrated high-side and low-side MOSFETs (7mOhms and 2mOhms maximum on-resistance, respectively) within a DFN 3.3x3.3 XSPairFET™ package. The low-side MOSFET source is connected directly to the exposed pad on PCB to enhance thermal dissipation. Using [Power Design](#) notebook design under typical conditions, 19V input Voltage, with 1.05V output Voltage, and a 21A output load condition, the AONE36132 had more than a two percent efficiency improvement when compared to a single DFN 5x6 high side and single DFN 5x6 low side configuration.

"The AONE36132 is the latest addition to the XSPairFET™ family which incorporates innovative technology to increase power density and improve efficiency for today's demanding applications," said Peter H. Wilson, Marketing Director of MOSFET product line at AOS.

Technical Highlights

The new product family offers various $R_{DS(ON)}$ levels in combination with multiple package options.

Part Number	Package		V_{IN} (V)	V_{GS} (±V)	$R_{DS(ON)}$ (mΩ max) at $V_{GS} =$		V_{GS} (±V) (max V)	C_{iss} (pF)	C_{oss} (pF)	C_{rss} (pF)	Q_g (nC)	Q_{gd} (nC)
					10V	4.5V						
AONE36132	DFN 3.3x3.3	High Side (Q1)	25	12	1.8	1.7	1.8	880	250	55	6.5	2.5
		Low Side (Q2)	25	12	1.8	1.7	1.9	3125	860	200	25	6

Pricing and Availability

The AONE36132 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 1,000 pieces is \$0.91.

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' 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.

A photo accompanying this announcement is available at <http://www.globenewswire.com/NewsRoom/AttachmentNg/7c421aed-46d4-407c-80e4-0313243205c8>

CONTACT:

Mina Galvan
408-789-3233 mina.galvan@aosmd.com

Primary Logo

Source: Alpha and Omega Semiconductor Limited