

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Introduces a High SOA MOSFET for Hot Swap Applications

SUNNYVALE, Calif., March 20, 2019 – [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 at the 2019 Applied Power Electronics Conference (APEC) in Anaheim, CA (held March 18th - 20th) the [AONS32100](#). This new device delivers low $R_{ds(on)}$ with a high Safe Operating Area (SOA) capabilities ideally suited for demanding applications such as hot swap and effuse. A high SOA is essential in server hot swap applications where the MOSFET needs to be robust to manage the high in-rush current effectively.

AONS32100 delivers the best in class robustness for a 25V MOSFET in DFN 5x6. The new device has a maximum $R_{d(son)}$ of 0.73m Ω at an applied Gate-Source Voltage equal to 10VGS. Under the SOA measurement condition of 12V and on for 25ms, the AONS32100 maximum current is 22A which is significantly higher than the previous generation.

“High reliability and availability are essential metrics in the server infrastructure. The Hot Swap MOSFET is one of the critical components that must be robust and reliable to meet customer demands. AONS32100 has strong SOA with low on-resistance to meet these requirements for hot swap applications,” said Peter H. Wilson, Marketing Director of MOSFET product line at AOS.

Technical Highlights

Part Number	Package	V_{IN} (V)	V_{GS} (\pm V)	$R_{DS(ON)}$ (m Ω max) at $V_{GS} =$		V_{GS} (\pm V) (max V)	C_{iss} (pF)	C_{oss} (pF)	C_{rss} (pF)	Q_g (nC)	Q_{gd} (nC)
				10V	4.5V						
AONS32100	DFN5x6	30	20	0.73	1.08	1.6	15200	2000	1400	115	35

Pricing and Availability

The AONS32100 is immediately available in production quantities with a lead-time of 16 weeks. The unit price for 1,000 pieces is \$1.26.

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](#), [IPM](#), [HVIC](#), [GaN/SiC](#), [Power IC](#) and [Digital Power](#) 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.

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