

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Expands the AlphaDFN™ Portfolio with its Lowest On-Resistance Battery Protection Device

Fully protected CSP package offers a more reliable and robust solution

SUNNYVALE, Calif., Nov. 12, 2015 – [Alpha and Omega Semiconductor Limited](http://www.aosmd.com) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors and power ICs, today announced the release of [AOC3864](#), a common-drain 20V dual n-channel MOSFET with an ultra-low on-resistance of 5.7mOhms at 4.5V. This new device offers the best approach in designing battery protection circuit modules, while providing a strong and reliable solution. It's designed with a standardized pin-out layout of CSP products with the added superior mechanical robustness of AOS's patented AlphaDFN™ packaging technology. This new device joins the AlphaDFN family in targeting applications such as the latest smart phones, tablets, media players, and wearable devices.

The growing demand on more data processing capabilities and longer operating time of current smart phones is driving the lithium battery toward another stage of higher capacity. At the same time, innovation in battery cell and charging technology is allowing higher charging current to power-up batteries much faster. As an essential device for battery safety design, MOSFETs with ultra-low on-resistance and small form factors are in high demand by smart phone designers. Using AOS's latest silicon technology, the AOC3864 is able to achieve a 5.7mOhm at 4.5V maximum source-to-source resistance within an ultra-thin 2.7mm x 1.8mm x 0.19mm package. All while providing a robust structure to solve die chipping, cracking and placement issues associated with standard CSP products.

"AOC3864 is another milestone in our AlphaDFN battery protection MOSFET family; it combines the advantages of both traditional CSP and molded packages to create an ideal solution. Designers obtain the benefits of low resistance and small form factor with greater mechanical robustness and reliability." said Lei Feng, Marketing Director of MOSFET product line at AOS.

Device Specification Table

Part Number	V _{SS} (V)	V _{GS} (V)	R _{SS(ON)MAX} (mOhms)		Q _g (typ) (nC)	I _S @ T _A = 25°C (A)
			4.5V	2.5V		
AOC3864	20	8	5.7	9	27	19

Pricing and Availability

The AOC3864 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 1,000 pieces is \$0.5.

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.

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