

**FOR IMMEDIATE RELEASE**

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## Alpha and Omega Semiconductor Unveils the First 45V 1.15mOhm MOSFET in the Industry

*Designed with a robust UIS capability to handle extreme conditions*

SUNNYVALE, Calif., Oct. 20, 2015 – [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 the industry's first single n-channel 45V MOSFET with an ultra-low on-resistance of 1.15mOhms at 10V. The [AON6152](#) provides the best combination of maximum power conversion efficiency and higher driver capability to minimize switching power loss. This latest addition to AOS's medium voltage product portfolio is designed to address a wide range of applications including secondary-side synchronous rectification in AC/DC and DC/DC converters, as well as industrial and motor drive applications.

Using AOS's leading process technology, the AON6152 is able to generate extremely low on-resistance when working as the secondary-side synchronous rectifier of an AC/DC or DC/DC converter, significantly reducing power dissipation and maximizing conversion efficiency. With a drain-source break-down voltage ( $BV_{DSS}$ ) rating at 45V and a super low on-resistance of 1.15mohm, the AON6152 provides a design-friendly feature that gives design engineers an optimized solution to get the highest efficiency and at the same time get better voltage headroom for a more reliable design. The AON6152 is available in a compact DFN5x6 power package, and is 100% Rg and UIS tested.

"AON6152 sets the stage for a new generation of products that can help simplify designs for more efficient, thermal, and higher power density performance. This new device will allow power designers to create solutions that run cooler and improve overall system reliability." said Lei Feng, Marketing Director of MOSFET product line at AOS.

### Device Specification Table

| 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                   | @ 4.5V |                  |                                |
| AON6152     | 45           | 20           | 1.15                    | 1.85   | 87               | 100                            |

### Pricing and Availability

The AON6152 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 1,000 pieces is \$1.15.

## **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](http://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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