

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Introduces a High Efficiency DrMOS Power Modules with Optimized Performance

Versatile synchronous buck power stage feature state-of-the-art technology

SUNNYVALE, Calif., July 28, 2016 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, today announced the release of the AOZ5166QI-01, the high efficiency power modules which are fully compliant with Intel’s DrMOS specifications. The AOZ5166QI-01 is housed in a 40-pin 6mm x 6mm QFN package that integrates an optimized dual gate driver and two MOSFETs, which together produce a high efficiency DC-DC synchronous buck power stage. The new device enables high power density voltage regulator solutions ideal for servers, work stations, graphic cards and high-end desktop PC applications.

The AOZ5166QI-01 utilizes AOS’s proprietary state-of-the-art trench MOSFET and packaging technologies to improve efficiency and thermal performance over the previous generation solution. Continuous engineering innovations are being implemented to reduce switching loss and lower power dissipation that ultimately benefit thermal characteristics that lead to higher current driving capability. The low RDS(ON) of low-side MOSFET combined with the low Qg high-side MOSFET achieves an optimal balance between switching and conduction losses to increase overall efficiency by 1%.

“To meet ever increasing power density requirements of high-end computing or server applications, we optimized our DrMOS power module driver performance by reducing switching loss, improving efficiency, and lowering the power dissipation,” said Kenny Hu, Power IC Product Marketing Manager at AOS.

Pricing and Availability

The AOZ5166QI-01 is available immediately in production quantities. The unit price of 1,000 pieces is \$2.15.

Dr MOS Power Modules: Released Products

Part Number	Min VIN (V)	Max Vin (V)	Max Current (A)	PWM Logic	Package
AOZ5036QI-01	4.5	16	60	3.3 V	QFN6x6-40L
AOZ5066QI	4.5	25	60	5 V	QFN6x6-40L
AOZ5066QI-01	4.5	25	60	3.3 V	QFN6x6-40L
AOZ5166QI-01	4.5	25	60	3.3 V	QFN6x6-40L
AOZ5049QI	4.5	25	35	5 V	QFN3.5x5-24L

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](#) 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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