

FOR IMMEDIATE RELEASE

Media Contact: Mina Galvan
Tel: 408.789.3233
Email: mina.galvan@aosmd.com

Alpha and Omega Semiconductor Reveals a 5mm x 5mm DrMOS Power Module Delivering up to 60A

Higher power density for today's high-end computing, servers, and graphic applications

SUNNYVALE, Calif., Aug. 24, 2017 – [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 [AOZ5131QI](#), the latest generation of power modules. The new device enables high power-density voltage regulator solutions ideal for CPU and GPU power regulation in notebook PCs, servers, and graphic cards.

The new AOZ5131QI integrates a dual gate driver and two optimized MOSFETs in a 31-pin 5mm x 5mm QFN package to produce a high power and high-efficiency power stage for synchronous step-down applications. The standard 5mm x 5mm QFN package is designed to provide maximum power density with low parasitic inductance and minimal EMI signature.

“The AOZ5131QI is the latest addition to our QFN5x5 standard package footprint series. By integrating FETs optimized for 12V input, the new device enables high efficiency and high-power density to satisfy the ever increasing customers' demand for higher performance in smaller and more power efficient products,” said Mehdy Khotan, Product Marketing Director for DrMOS product line at Alpha and Omega Semiconductor.

Technical Highlights

Input Voltage Range: 4.5V to 18V
Output Current: Up to 60A
Switching Frequency: Up to 2MHz
Package: 31-pin 5mm x 5mm QFN
Standard: IMVP8

Device Spec Table

Part Number	Min (V)	Max (V)	Max Current (A)	PWM Logic	Package
AOZ5049QI	4.5	25	35	5V	QFN 3.5x5_24L
AOZ5131QI	4.5	18	60	5V	QFN 5x5A_31L
AOZ5038QI	4.5	25	60	5V	QFN 5x5A_31L
AOZ5039QI	4.5	25	50	5V	QFN 5x5A_31L
AOZ5048QI	4.5	25	35	5V	QFN 3.5x5_24L

Pricing and Availability

The AOZ5131QI is immediately available in production quantities with a lead-time of 12 weeks. The unit price for 1,000 pieces is \$2.20.

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'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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