

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Unveils a New Series of Intelligent MOSFET Power Modules

Optimized for high efficiency, rugged and compact design in motor drive applications

SUNNYVALE, Calif., Feb. 25, 2020 – [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 announced the release of a new intelligent power module, [AIM702H50B](#), specialized for low-power BLDC motor drives system such as fan motors in home appliances and air-conditioners that require highly compact size with reliable and efficient design allowance.

The new IPM7 series consists of advanced super junction MOSFETs designed for motor drive and high voltage gate driving ICs with an integrated bootstrap circuit in a new ultra-compact surface mountable package.

“A BLDC-based inverter has been widely used in fan motors because it is quicker, quieter, and more energy-efficient than the conventional solutions using dc motors or ac induction motors with on/off control. Nowadays, its demand and expansion are becoming a mandatory requirement due to energy saving and regulations. Without a doubt, IPM7 will bring a lot of advantages for fan motor applications by significantly enhancing the cost-effective development of the system, reducing the inverter board size, and obtaining easy and reliable PCB assembly. Quick and precise detection of fault temperature in IPM7 will play a significant role in fan motor drives to secure a reliable design as well as a long time of operation,” said Dr. Brian Suh, Vice President of IGBT/IPM product lines at AOS.

IPM7 Series Technical Highlights

- Compact package: 18mm x 7.5mm
- 3-phase super junction MOSFET inverter topology for motor drives
- Integrated HVIC gate driver including bootstrap circuit
- Wide input interface (3~18V)
- Control supply under-voltage lockout protection
- Integrated over-temperature protection and monitoring functions

Pricing and Availability

The AIM702H50B is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces is \$2.7.

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, TVS, 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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