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FOR IMMEDIATE RELEASE

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At PCIM 2024, Alpha and Omega Semiconductor to Showcase its Innovative, High-Efficiency Power Management Solutions

Editors and Customers are invited to meet with AOS product experts and view demos of its expanding portfolio of application-specific power semiconductors, power ICs, and module products

SUNNYVALE, Calif., May 16, 2024—Alpha and Omega Semiconductor Limited (AOS) (Nasdaq: AOSL), a designer, developer, and global supplier of a broad range of discrete power devices, wide band gap power devices, power management ICs, and modules, will showcase its expanding line of advanced power management solutions at PCIM 2024. Designed to meet the dynamic, important power management challenges in several key application areas and markets, the AOS products highlighted at PCIM include:

- **New Silicon Carbide (SiC) MOSFET Announcement at PCIM:** Supporting the needs of a wide range of automotive and industrial applications, AOS will introduce three new advanced package options for its latest Gen2 SiC MOSFET line. The new packages comprise a surface mount topside cooling option with a Kelvin source that meets the needs of the most power-dense advanced designs. It will also be announced that an AEC-Q101-qualified surface mount package will be in the standard D2PAK-7L footprint. The third package is a half-bridge module that provides an excellent solution for the high-power industrial solar and charging station markets. The announcements will detail how these packages support AOS' comprehensive line of SiC MOSFETs from 10mOhm to 500mOhm and voltages from 650V to 1700V.
- **New Motor Drive Announcement at PCIM:** AOS will announce a new range of 60V and 100V drivers for power tools, outdoor garden equipment, and e-mobility applications, including a 100V half-bridge, a 100V 3-phase, and a 60V 3-phase. These products all support 100 percent duty cycle operation, and demo boards using AOS motor drivers and MOSFETs will be featured in the AOS booth.
- **Power Supply and Renewable Energy**: A significant solution in AOS' growing *High Voltage Super Junction MOSFET portfolio* is its industry-leading optimized αMOS5™ 600V to 700V Super Junction MOSFETs that help designers achieve efficiency and density goals while satisfying budget goals. Featuring fast switching, a robust UIS/body diode, and ease of use, these state-of-the-art MOSFETs meet the latest server, telecom rectifier, solar inverter, EV charger, gaming, PC, and universal charging/PD design requirements.

  The newly released AONA66916, a 100V AlphaSGT™ MOSFET, delivers industry-leading Rthjc-top and Rthjc-bottom thermal resistances. A compact DFN 5x6 double-sided cooling package offers improved thermal designs in demanding telecom, solar, and DC-DC converter applications.

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- **Automotive and E-mobility**: In AOS' increasing line of automotive MOSFETs, the new automotive-grade 80V (AOTL66810Q) and 100V (AOTL66912Q) MOSFETs in the TOLL package are designed to achieve the highest current capability. The AOS TOLL package utilizes advanced clip technology to achieve a high in-rush current rating and very low package resistance and inductance, enabling improved EMI performance compared to other TOLL packages based on standard wire-bonding technology packages. These new automotive-grade MOSFETs help designers meet the power requirements in electric vehicles, battery management systems (BMS), and high-performance inverters (BLDC motors) for e-mobility.
- **Intelligent Power Modules, Mega IPM7**: AOS has integrated its latest RC IGBT and high-voltage gate driver into the world's most compact package design, capable of delivering mega power of up to 100W in motor control applications. The portfolio covers 600V / (1A−3A) in a variety of package options (Mega IPM-7D, IPM-7DT, IPM-7E) that are ideal solutions for a broad array of design requirements.
- **Poster Presentation:** Jong-Mu Lee, Ph.D. and director of AOS IGBT and Module Product Lines, will present SiC-IPM for Compact and Energy Efficient in the Intelligent Power Modules session on Tuesday, June 11, at 15:30.

Where: PCIM Europe 2024, Nuremberg, Germany

When: June 11 to 13, 2024

Location: Alpha and Omega Semiconductor, Booth# 9-519

About AOS

Alpha and Omega Semiconductor Limited, or AOS, is a designer, developer, and global supplier of a broad range of discrete power devices, wide band gap power devices, power management ICs, and modules, including a wide portfolio of Power MOSFET, SiC, IGBT, IPM, TVS, HV Gate Drivers, 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, smartphones, battery packs, consumer and industrial motor controls, automotive electronics, 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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