

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Releases 700V and 600V α MOS5™ Super Junction MOSFETs in 300mm Fab

Optimized for efficiency, ruggedness and ease-of-use in both hard and soft switching topologies

SUNNYVALE, Calif., June 27, 2019 – [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 700V and 600V α MOS5™ Super Junction MOSFET families in 300mm technologies. α MOS5 is AOS' latest generation of high voltage MOSFET, designed to meet the high efficiency and high-density needs for Quick Charger, Adapter, PC Power, Server, Industrial Power, Telecom, and Hyperscale Datacenter applications.

The new α MOS5 family is designed to fit into a variety of hard and soft switching topologies including PFC, Flyback, LLC, ZVS FB, and other resonant structures. With 30% lower " $R_{DS} \times A$ " versus the previous generation, α MOS5 helps further reduce the conduction and switching losses, and drives SMPS design's efficiency to the next level.

The new 700V and 600V α MOS5 Super Junction MOSFET families will be manufactured in AOS' world-class 300mm Fab to ensure AOS' competence in technology, quality, and capacity to serve worldwide OEM and ODM customers. Both 700V and 600V α MOS5 Super Junction MOSFET families provide a broad selection of $R_{DS(ON)}$ and package options to address applications of different power ratings and design form factors. Our Best-In-Class part is a 600V 40mOhm device in a TO-247 package.

"AOS' 10 years of High Voltage MOSFET development experience, proprietary silicon know-how, and our 300mm process technologies give us the competitive advantage to bring the most well-balanced and reliable Super Junction MOSFET to the market. Our 'Tunable Switching Technology' allows a wide range of dV/dt and makes it possible to achieve the best efficiency in fast switching applications, as well as addressing EMI and Avalanche/UIS challenges without compromising efficiency. The vast choices of AOS High Voltage MOSFET portfolios in $R_{DS(ON)}$, BV_{dss} , and package provide complete solutions for both low power and high power SMPS designs," said Richard Zhang, Director, High Voltage MOSFET Product Line at AOS.

Pricing and Availability

As part of the first wave release, [AOTF190A60CL](#) (600V 190mOhm), [AOTF380A60CL](#) (600V 380mOhm) and [AOD600A70R](#) (700V 600mOhm) are immediately available for mass production. For 1000pcs, the unit prices are \$1.485 for AOTF190A60CL, \$1.0950 for AOTF380A60CL and \$0.72 for AOD600A70R.

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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](#), [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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