

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Announces New 60V and 100V MOSFETs in TO-Leadless Packaging Technology for High Current Applications

SUNNYVALE, Calif., Sep. 26, 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 introduced the TO-Leadless (TOLL) package in combination with a 60V and 100V Shield-Gate Technology (SGT) providing the highest current capability in its voltage class. The TOLL package has the highest current capacity due to AOS' innovative technology, which utilizes a clip to achieve the in-rush current. The TOLL packaging technology offers a very low package resistance and inductance due to the clip technology when compared to other TO-Leadless packages. This packaging technology uses a standard wire-bonding technology which enables improved EMI performance.

The [AOTL66608](#) (60V), [AOTL66610](#) (60V), and [AOTL66912](#) (100V) have a 30% smaller footprint compared to a TO-263 (D2PAK) package and has a higher current capability which enables the designer to reduce the number of MOSFETs in parallel. The new device's offer a higher power density compared to existing solutions. They are ideally suited for industrial BLDC motor applications and battery management.

“Using the AOS TOLL package with clip technology offers performance improvement in a robust package. The AOTL66608, AOTL66610, and AOTL66912 can simplify new designs with the higher current capability to enable savings in overall system cost due to a reduced number of devices in parallel,” said Peter H. Wilson, Marketing Director of MOSFET product line at AOS.

Technical Highlights

Part Number	V _{DS} (V)	V _{GS} (±V)	Continuous Drain Current (A)		R _{DS(ON)} Max (mOhms) @10V
			@25°C	@100°C	
AOTL66608	60	20	400	400	0.85
AOTL66610	60	20	350	247	1.2
AOTL66912	100	20	380	269	1.7

Pricing and Availability

The AOTL66608, AOTL66610, and AOTL66912 are immediately available in production quantities with a lead-time of 14-16 weeks. The unit price for 1,000 pieces are \$4.1, \$2.3, and \$4.56, respectively.

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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