

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Announces New High SOA MOSFETs for 48V Hot Swap Telecom Applications

SUNNYVALE, Calif., Dec. 15, 2020 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer, and global supplier of a broad range of power semiconductors, power ICs, and digital power products, today announced the release of, [AOTL66518](#) and [AOB66518L](#), a 150V MOSFET with low on-resistance and a high Safe Operating Area (SOA) capability designed for demanding applications in Telecom Hot Swap.

AOS designed these MOSFETs with a low on state resistance and a robust linear mode performance with a wide Safe Operating Area (SOA) to manage Telecom’s demanding application where performance, reliability, and quality are essential. AOTL66518 and AOB66518L have a max junction temperature up to 175°C and protects the load by limiting high inrush currents in soft-start, eFuse, and Hot Swap application conditions.

AOTL66518 delivers high robustness with a 150V MOSFET in a TOLL package. The TOLL package offers a 30% smaller footprint than a TO-263 (D2PAK) package and has a higher current capability due to clip technology. AOTL66518 has a very low thermal resistance from silicon junction to the bottom of the package case (R_{thjc}) compared to TO-263. These features enable Telecom designers to reduce the number of MOSFETs in parallel.

“High reliability and robust linear mode performance are critical metrics in Telecommunications. AOTL66518 and AOB66518L have high SOA with low on-resistance to meet these demanding requirements,” said Peter H. Wilson.

Technical Highlights

Part Number	Package	V _{IN} (V)	V _{GS} (±V)	I _D / I _{DM} (A)	T _J Max (°C)	R _{THJC} Max (°C/W)	R _{DS(ON)} (mΩ Max) at V _{GS} = 10V
AOTL66518	TOLL	150	20	214 / 710	175	0.3	4.3
AOB66518L	TO-263	150	20	120 / 480	175	0.4	5.0

Pricing and Availability

The AOTL66518 and AOB66518L are immediately available in production quantities with a lead-time of 16 weeks. The unit price for 1,000 pieces is \$4.5618.

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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](#), [SiC/GaN](#), [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's 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 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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