



ALPHA & OMEGA
SEMICONDUCTOR

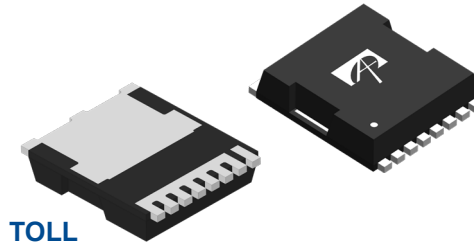


TOLL Package Family

- N-Channel AlphaSGT™ MV MOSFETs
- LOW $R_{DS(ON)}$
- High in-rush current capability
- $T_{jmax} = 175^{\circ}\text{C}$
- RoHS and Halogen-Free Compliant
- MSL 1 classified
- 100% Avalanche and Rg tested

Applications

- Automotive*
- Motor Drive
- Battery Management
- Load Switch
- Hot Swaps⁺



TOLL

* Specific products that are AEC-Q101 qualified

+ Specific products that have High SOA capabilities



MV
MOSFETs



MOSFETs | TOLL Package Family



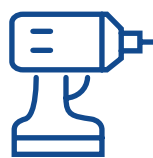
Motor Drive



Battery Management



Automotive



Power Tools



Gardening Tools



eScooter



Hot Swap

Product Selection Table

Part Number	Package	V _{DS} (V)	V _{GS} (±V)	ID @ 25°C (A)	R _{DS(ON)} max (mΩ) at V _{GS} =10V	T _j max (°C)	Qualifications
AOTL66401	TOLL	40	20	400	0.7	175	Industrial
AOTL66608	TOLL	60	20	400	0.85	175	Industrial
AOTL66610	TOLL	60	20	350	1.2	175	Industrial
AOTL66810	TOLL	80	20	420	1.25	175	Industrial
AOTL66810Q *	TOLL	80	20	445	1.25	175	Automotive
AOTL66811	TOLL	80	20	268	1.8	175	Industrial
AOTL77901	TOLL	100	20	360	1.5	175	Industrial
AOTL77908	TOLL	100	20	326	1.7	175	Industrial
AOTL66912 +	TOLL	100	20	380	1.7	175	Industrial
AOTL66912Q *	TOLL	100	20	370	1.7	175	Automotive
AOTL66915	TOLL	100	20	339	1.7	175	Industrial
AOTL66914	TOLL	100	20	220	2.5	175	Industrial
AOTL66918	TOLL	100	20	214	4.3	175	Industrial
AOTL66215	TOLL	120	20	305	2.3	175	Industrial
AOTL66515 +	TOLL	150	20	200	3.9	175	Industrial
AOTL66518 +	TOLL	150	20	214	4.3	175	Industrial

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Alpha and Omega Semiconductor Limited (AOS) is a designer, developer, and global supplier of a broad range of discrete power devices, wide bandgap 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' portfolio of products targets high-volume applications, including personal computers, graphics cards, datacenters, AI servers, smartphones, consumer and industrial motor controls, TVs, lightings, automotive electronics, and power supply units for various equipment.



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