



AUTOMOTIVE

EFFICIENT • SAFE • RELIABLE



Alpha and Omega Semiconductor introduces a portfolio of AEC-Q101 qualified Si and SiC discrete power devices, based on proven high efficiency and reliable technology for automotive applications.



Driving Automotive Efficiency with AlphaSGT™ MOSFETs

- Electrically and Thermally Enhanced Package
- Advanced AlphaSGT™ MOSFET Technology
- Low Switching Loss
- AEC-Q101 Qualified

Part Number	Status	Package	Channel	BV _{DSS} (V)	R _{DS(ON)} @4.5V (mΩ)	R _{DS(ON)} @10V (mΩ)
AOQ1R2LNS4A	Dev*	LFPAK56	N	40	–	1.2
AOQ1R6LNS4A	Dev*	LFPAK56	N	40	1.6	1.3
AOQ1R5LNS6A	Dev*	LFPAK56	N	60	–	1.5
AOQ1R8LNL6A	Dev*	LFPAK56	N	60	1.8	1.5
AOQ3R4LNS8A	Dev*	LFPAK56	N	80	–	3.4
AOQ4R1LNS10A	Dev*	LFPAK56	N	100	–	4.1

Available Q3-2022

Driving Automotive xEV Safety with AlphaIGBT™

- Designed for xEV Charging Topology
- High Ruggedness
- Easy Control
- AEC-Q101 Qualified

Part Number	Status	Package	Configuration	V _{CE} (V)	I _{C(MAX)} (A) (25°C/100°C)	V _{CE(SAT)} Typ (V)	V _F (Typ)
AOBS30B65LN	Production	D ² PAK	IGBT	650	60/30	1.86	–
AOB30B65LN2V	Dev	D ² PAK	IGBT w/Anti-Parallel Diode	650	60/30	1.86	1.3



Driving Automotive xEV Performance with αSiC MOSFETs

- Proprietary αSiC MOSFET Technology
- Robust Low Loss Fast Switching
- Best-in-Class Performance
- AEC-Q101 Qualified

Part Number	Status	Package	Channel	BV _{DSS} (V)	R _{DS(ON)} (mΩ)
AOK033V120X2Q	Production	TO247-3L	N	1200	33
AOM033V120X2Q	Production	TO247-4L	N	1200	33
AOK065V120X2Q	Dev	TO247-3L	N	1200	65
AOM065V120X2Q	Production	TO247-4L	N	1200	65
AOK150V120X2Q	Production	TO247-3L	N	1200	150

Disclaimer: Specifications for all products under development are subject to change without notice.

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Alpha and Omega Semiconductor Limited, or AOS, is a designer, developer and global supplier of a broad range of power semiconductor products. AOS' products are aimed at, but not limited to applications such as portable computers, flat-panel TVs, LED lighting, smartphones, battery backs, consumer and industrial motor controls, automotive electronics and power supplies for TVs, computers, servers and telecommunication equipment.



Powering a Greener Future™