

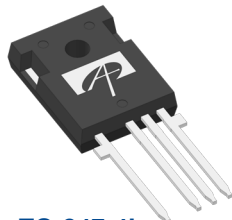


650 V / 750 V / 1200 V α SiC MOSFETs

- Ultra-low Loss Switching for High-Efficiency Applications
- AEC-Q101 Automotive Qualified
- Rugged Design with 100% UIS Testing
- Wide Range of Package Options



TO-247-3L



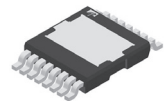
TO-247-4L



D2PAK-7L



TOLL



GTPAK™



α SiC
MOSFETs



650 V / 750 V / 1200 V α SiC MOSFETs

Features

- Proprietary α SiC MOSFET Technology
- Low loss, fast switching speeds with low R_{DS}
- Robust body diode and low Q_{rr}

Applications

- Automotive
- xEV charger
- Solar inverters
- UPS
- SMPS
- Motor drives

1200 V / 650 V / 750 V α SiC MOSFETs



TO-247-4L



TO-247-3L

Part Number	V_{DS} (Max)	$R_{DS(ON)}$ (Typ)	$V_{GS, OP}$	I_{DS}	T_J (Max)	Application
AOM015V120X3Q *	1200V	15 m Ω	-3V/+18V	125A	175°C	Auto/Industrial
AOM020V120X3Q *	1200V	20 m Ω	-3V/+18V	112A	175°C	Auto/Industrial
AOM033V120X3Q *	1200V	33m Ω	-3V/+18V	56A	175°C	Auto/Industrial
AOM040V120X3Q *	1200V	40m Ω	-3V/+18V	46A	175°C	Auto/Industrial
AOK150V120X2Q	1200V	150m Ω	-5V/+15V	21A	175°C	Auto/Industrial
AOK500V120X2	1200V	500m Ω	-5V/+15V	6A	175°C	Industrial
AOM015V75X2Q	650V/750V	15 m Ω	-5V/+15V	96A	175°C	Auto/Industrial
AOM060V75X2Q	650V/750V	60m Ω	-5V/+15V	29A	175°C	Auto/Industrial

* = NEW Gen3 SiC MOSFETs

1200 V D2PAK-7L α SiC MOSFETs



D2PAK-7L

Part Number	V_{DS} (Max)	$R_{DS(ON)}$ (Typ)	$V_{GS, OP}$	I_{DS}	T_J (Max)	Application
AOBB040V120X2Q	1200V	40 m Ω	-5V/+18V	51A	175°C	Auto/Industrial

650 V TOLL α SiC MOSFETs



TOLL

Part Number	V_{DS} (Max)	$R_{DS(ON)}$ (Typ)	$V_{GS, OP}$	I_{DS}	T_J (Max)	Application
AOTL022V65X2 *	650V	22 m Ω	0V/+18V	70A	175°C	Industrial
AOTL049V65X2 *	650V	40 m Ω	0V/+18V	37A	175°C	Industrial

* = Available Q2, 25



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