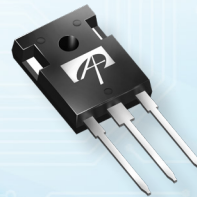
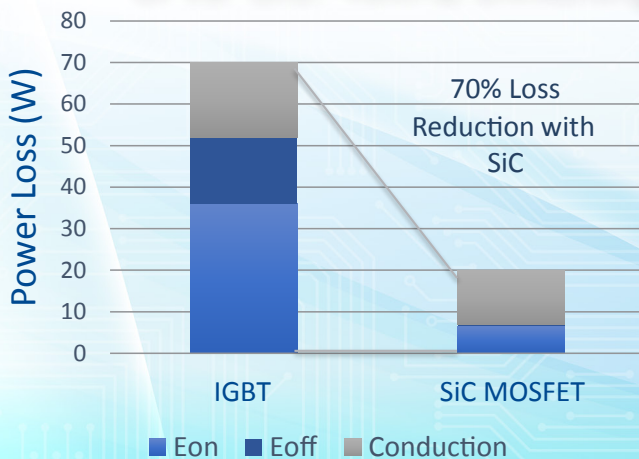


New Fast Switching 1200V α SiC MOSFETs

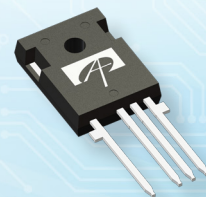
- Ultra-low Loss Switching for High-Efficiency Applications
- AEC-Q101 Automotive Qualified
- Rugged Design with 100% UIS Testing
- Designed for 15V Gate Drive



Si vs. SiC: 40kHz Switching



TO-247-3L



TO-247-4L

Features

- Proprietary α SiC MOSFET Technology
- Low loss, fast switching speeds with low R_{DS}
- Optimized drive voltage ($V_{GS} = 15V$) for broad driver compatibility
- Robust body diode and low Q_{rr}

Applications

- Automotive
- xEV charger
- Solar interverters
- Industrial
- UPS
- SMPS
- Motor drives

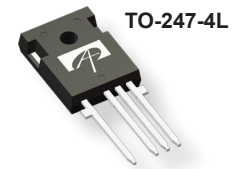
TO-247-3L Product Specification Table

Part Number	V_{DS} (Max)	$R_{DS(ON)}$ (Typ)	$V_{GS, OP}$	I_{DS}	T_J (Max)	RTM
AOK033V120X2	1200V	33 m Ω	-5V/+15V	68A	175°C	Q2'21
AOK065V120X2	1200V	65 m Ω	-5V/+15V	40A	175°C	Full Production
AOK150V120X2	1200V	150 m Ω	-5V/+15V	21A	175°C	Q2'21



TO-247-4L Product Specification Table

Part Number	V_{DS} (Max)	$R_{DS(ON)}$ (Typ)	$V_{GS, OP}$	I_{DS}	T_J (Max)	RTM
AOM033V120X2	1200V	33 m Ω	-5V/+15V	68A	175°C	Full Production
AOM065V120X2	1200V	65 m Ω	-5V/+15V	40A	175°C	Q2'21



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