

1200V GEN6 SiC SDB



Features

- Gen6 SiC Schottky design
- Merged PiN Schottky (MPS) structure
- Low forward voltage
- Ultra-low switching loss
- Zero reverse recovery
- High surge current capability
- High current handling up to 40 A
- Wide operating temperature range
- Stable high-temperature performance
- TO-247AD package option

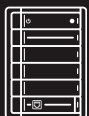


Benefits

Gen6 SiC technology improves efficiency and thermal stability, enabling reliable operation at higher power densities and elevated temperatures in demanding power applications.

Zero reverse recovery reduces switching losses and EMI in high-frequency operation, improving system efficiency and lowering stress on power switches.

Applications



Server power systems



Industrial servo drives



Fast chargers

1200V Gen6 SiC Schottky Diode in TO-247AD for High-Power Rectification



Zero Reverse Recovery Current, 90A Continuous Current Capability, and MPS Technology for Industrial and Charging Applications

Low-Loss Gen6 SiC Schottky Diodes for Fast-Switching Power Designs



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Average Forward Current I_F (AV) (A)	Peak Repetitive Reverse Voltage V_{RRM} (V)	Forward Voltage V_F (V) [max] @ I_F (A)	At Rated Forward Current I_F (A)	Reverse Voltage Leakage Current I_R (uA) [max] @ V_R	Datasheet
SICWT40120G6M	SiC Schottky Barrier Diodes (SBDs)	TO-247AD	40	1200	1.65	40	25	Info

Applications:



Industrial Power Supplies

- AC/DC and DC/DC switching power supplies
- Server and telecom power systems
- Industrial automation power modules



Power Quality and Energy Conditioning

- Power factor correction (PFC) circuits
- Uninterruptible power supplies (UPS)
- Active front-end (AFE) rectifiers



Motion Control and Transportation

- Motor drives and inverters
- Traction systems for rail and electric vehicles
- Industrial servo drives and robotics



Charging Infrastructure and Energy Delivery

- Charging piles and high-power chargers
- Fast chargers for industrial equipment and energy storage systems

CONTACT MCC TO REQUEST A SAMPLE

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