

1200V SiC Schottky Rectifier for High-Frequency, High-Reliability Power

1200V SiC SBR



Features

- 1200V / 2A SiC Schottky Rectifier
- Zero Reverse Recovery Charge ($Q_{rr} \approx 0$)
- Ultra-Fast Switching Capability
- 175°C Maximum Junction Temperature
- Positive Temperature Coefficient of V_f
- Thermally Efficient DPAK Package



Benefits

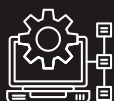
Higher Efficiency Zero reverse recovery ($Q_{rr} \approx 0$) and ultra-fast switching cut losses and EMI, enabling high-frequency designs with smaller magnetics.

Superior Thermal Performance 175°C junction rating and exposed-pad DPAK simplify heat management, reduce cooling needs, and boost reliability.

Applications



Motor control



UPS systems

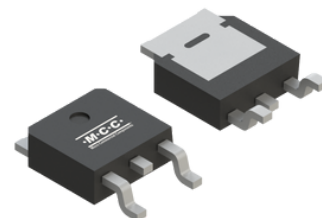


HVAC systems



Next-Generation SiC Performance in a Small Package

Zero Qrr, 175°C operation, and ultra-fast switching for high-frequency power designs



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Average Forward Current IF(AV)(A)	Peak Repetitive Reverse Voltage VRRM (V)	Forward Voltage VF (V) [max]@IF(A)	Mounting Type	Datasheet
SICU02120G4J	SiC SBD	DPAK	2	1200	1.6	Surface mount	Info

Applications



Industrial Power and Automation

- Power Factor Correction (PFC) for factory drives and motor control
- Induction heating systems (metal processing, soldering, cookware manufacturing)
- Uninterruptible Power Supplies (UPS) for industrial control systems
- High-frequency DC/DC stages in programmable power supplies

Data Center and IT Infrastructure

- UPS systems for servers and storage
- PFC stages in high-density rack power supplies
- SMPS for blade servers and network switches
- High-efficiency AC/DC front ends in modular PSUs

Renewable Energy and Energy Storage

- UPS systems for servers and storage
- PFC stages in high-density rack power supplies
- SMPS for blade servers and network switches
- High-efficiency AC/DC front ends in modular PSUs

Consumer and Commercial Electronics

- SMPS in appliances and HVAC systems
- LED lighting drivers with PFC
- High-frequency adapters and brick supplies

CONTACT MCC TO REQUEST A SAMPLE

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