

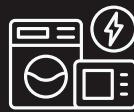
**SiC SCHOTTKY DIODES****Features**

- Low forward voltage
- Ultra-low switching loss
- Positive temperature coefficient for safe paralleling
- Negligible reverse recovery
- Wide operating temperature range
- Lower heatsink requirements and higher power density
- 650 V and 1200 V voltage ratings
- 2 A and 4 A current options
- TO-220AC and ITO-220AC package options

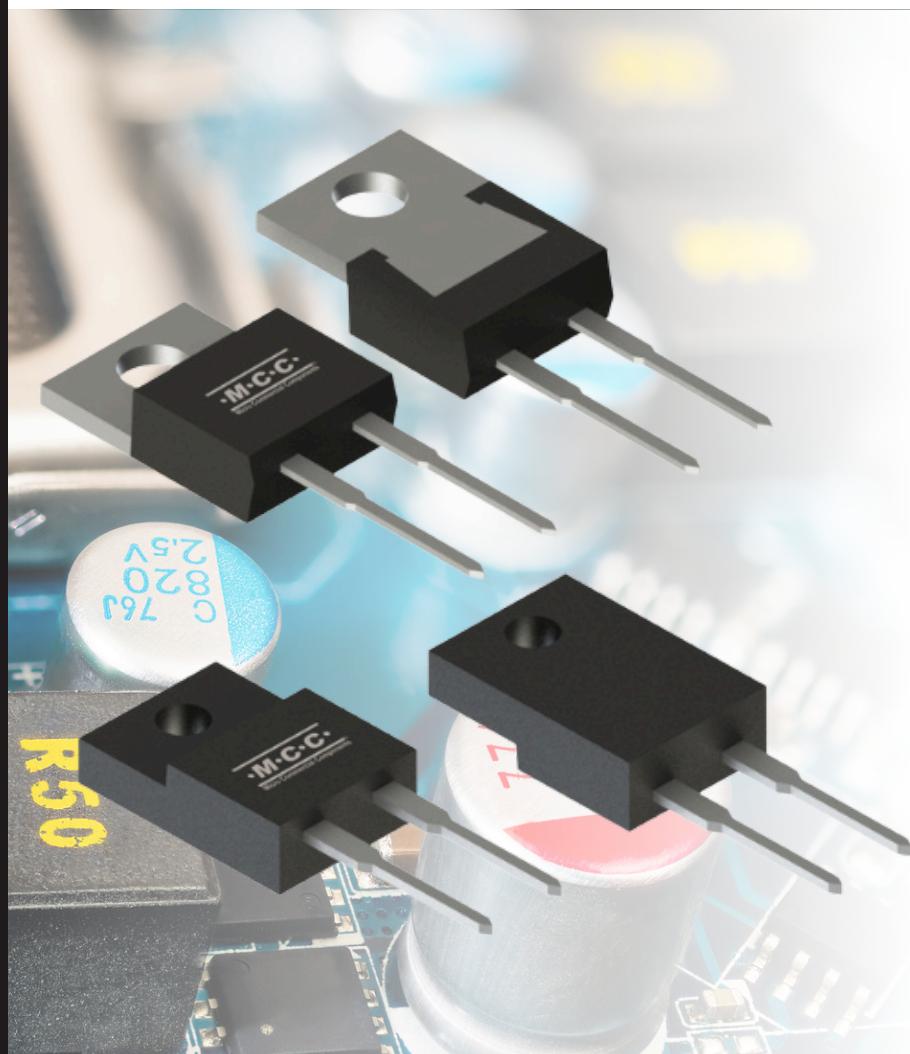
**Benefits**

Positive temperature coefficient supports stable current sharing in parallel configurations, improving system robustness, and reducing the need for complex current balancing schemes.

Negligible reverse recovery charge reduces switching losses and EMI, enabling higher switching frequencies, smaller magnetics, and more compact, efficient power stages.

**Applications**LED drivers &  
industrial  
lightingEnergy-  
efficient  
appliancesIndustrial  
motor  
controllers

# Fourth Generation SiC Schottky Diodes: 650V / 1200V, 2A & 4A



## High-Efficiency Rectification with Ultra- Low Switching Losses

# 650 V and 1200 V SiC Schottky Diodes with Ultra Low Losses for Compact Reliable Power Systems



## Product Attributes, Parametrics & Datasheets

Product	Type	Package	Average Forward Current IF(AV) (A)	Peak Repetitive Reverse Voltage VRRM (v)	Mounting Type	Datasheet
<a href="#"><u>SICF02120Y</u></a>	SiC SBDs	TO-220AC	2	1200	Through Hole	<a href="#">Info</a>
<a href="#"><u>SICF0465Y</u></a>	SiC SBDs	ITO-220AC	4	650	Through Hole	<a href="#">Info</a>
<a href="#"><u>SIC0465Y</u></a>	SiC SBDs	ITO-220AC	4	650	Through Hole	<a href="#">Info</a>

## Applications



### Power Electronics: Switching Power Supplies

- AC-DC adapters, industrial SMPS (PFC front end, output rectification)
- Server/telecom power modules for high-density designs
- Renewable energy inverters (auxiliary/control power)
- LED drivers and industrial lighting

### Power Quality: PFC Stages

- Active/boost PFC in SMPS and EV chargers
- UPS and power conditioners
- Energy-efficient appliances

### Transportation: Motor Drives & Traction

- EV traction inverters and auxiliary circuits
- On-board chargers, DC-DC converters
- Industrial motor controllers and robotics

**CONTACT MCC TO REQUEST A SAMPLE**

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