

## GEN4 SiC SBD



### Features

- Gen4 SiC Schottky diode design
- Fast switching, low losses
- Zero reverse recovery
- High surge current capability
- Low leakage at high temperature
- Stable thermal performance
- High-frequency operation support
- Industrial-grade reliability
- DPAK, D2-PAK, and TO-220AC Packages



### Benefits

Gen4 SiC efficiency and thermal robustness are supported by the page's focus on fast switching, low losses, and strong thermal performance.

Zero reverse recovery aligns with the high-frequency SMPS and PFC applications that require low switching losses and reduced EMI.

### Applications



Server Power Supplies

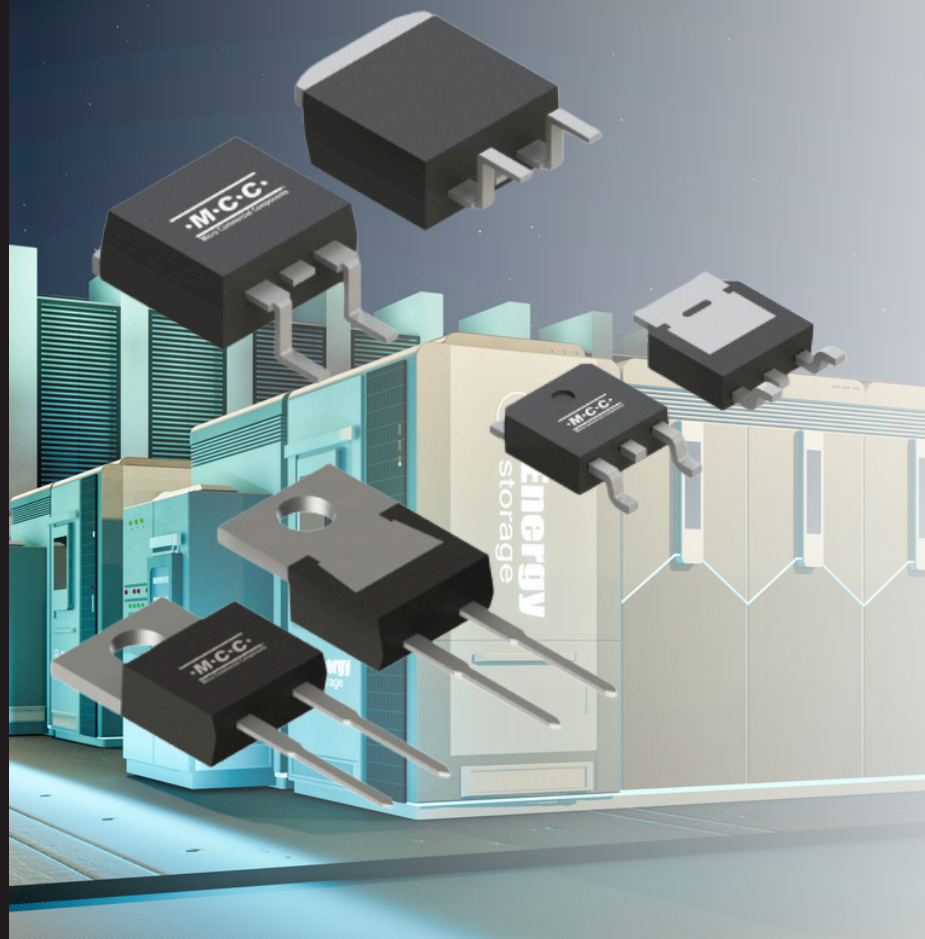


Welding Equipment



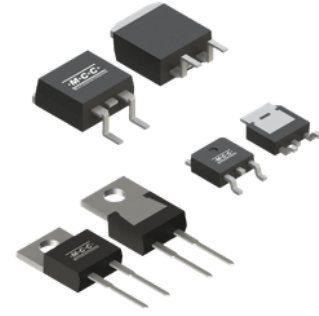
Battery Charging Systems

# Gen4 SiC Schottky Diodes for High-Voltage Efficiency



## Zero Reverse Recovery Rectifiers in DPAK, D2-PAK, and TO-220AC Packages

# Fast Switching, Low Losses for Modern High-Voltage Applications



## 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 $I_R$ ( $\mu$ A) [max] @ $V_R$	Datasheet
<a href="#">SICU0465XG4J</a>	<a href="#">SiC Schottky Barrier Diodes (SBDs)</a>	<a href="#">DPAK</a>	4	650	1.65	4	20	<a href="#">Info</a>
<a href="#">SICB10120G4J</a>	<a href="#">SiC Schottky Barrier Diodes (SBDs)</a>	<a href="#">D2-PAK</a>	10	1200	1.6	10	25	<a href="#">Info</a>
<a href="#">SIC3065G4J</a>	<a href="#">SiC Schottky Barrier Diodes (SBDs)</a>	<a href="#">TO-220AC</a>	30	650	1.6	30	25	<a href="#">Info</a>

## Applications:



### Switching Power Supplies (SMPS)

- Server and data center power supplies
- Telecom and networking power units
- AC/DC and DC/DC converter stages
- High-frequency, high-density power modules



### Power Factor Correction (PFC)

- Boost PFC stages for industrial and commercial power supplies
- Front-end PFC for server and telecom systems
- High-power AC input conditioning circuits



### Solar Inverters

- String inverters
- Central inverters
- DC/DC conversion stages in photovoltaic systems
- Auxiliary power supplies for inverter control electronic



### Industrial Power Systems

- Motor drives and variable frequency drives (VFDs)
- Welding equipment and plasma power supplies
- Industrial UPS systems
- Automation and factory power infrastructure



### Systems High-Efficiency Rectifiers

- AC/DC rectification stages
- High-voltage DC power supplies
- Battery charging systems
- Renewable energy and energy storage front ends

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