

Meet MCC's 1000V Bridge Rectifiers Made for High-Power Applications

1000V BRIDGE RECTIFIERS



Features

- Glass-passivated chip junction:
- Surface mount device
- TBSG package
- High surge forward current capability
- Low forward voltage drop (1V)
- Voltage support up to 1000V
- Multiple current ratings: 2A, 3A, 4A, and 6A options provide flexibility for various needs
- High-temperature operation
- Low thermal resistance
- RoHS compliant



Benefits

Our new lineup of single-phase bridge rectifiers in the compact TBSG package are designed to deliver twice the current carrying capacity of the traditional TBS package.

With 1000V performance and a forward drop of only 1V, our new rectifiers are as powerful as they are efficient. Available in 2A, 3A, 4A, and 6A current options,

Applications



Power Supplies

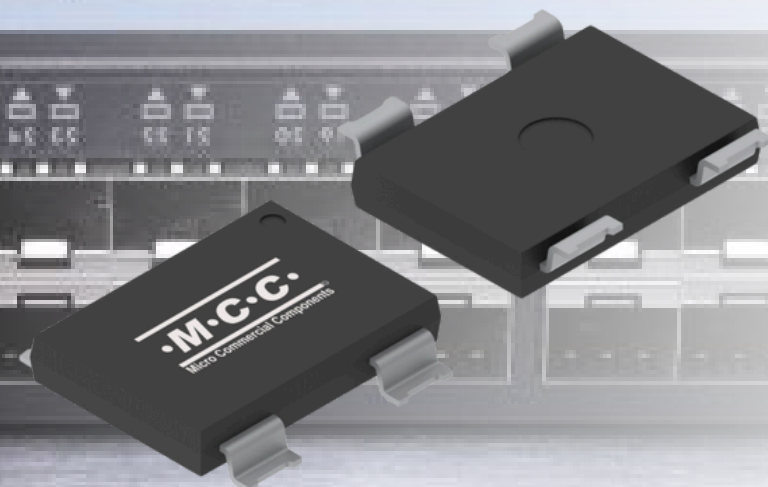


Automotive

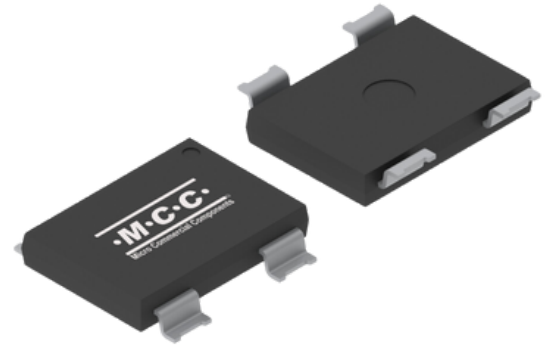


Communication
Systems

**Ideal for AC-DC rectification,
reliable reverse polarity
protection,
or polarized DC power
scenarios**



Glass-passivated chip junction and high surge forward current capability



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IF(AV)	Mounting Type	Datasheet
<u>TBSA20M-TP</u>	Bridge Rectifier	TBSG	1000V	2A	Surface-Mount (SMD)	<u>Info</u>
<u>TBSA30M-TP</u>	Bridge Rectifier	TBSG	1000V	3A	Surface-Mount (SMD)	<u>Info</u>
<u>TBSA40M-TP</u>	Bridge Rectifier	TBSG	1000V	4A	Surface-Mount (SMD)	<u>Info</u>
<u>TBSA60M-TP</u>	Bridge Rectifier	TBSG	1000V	6A	Surface-Mount (SMD)	<u>Info</u>

Applications:



Power Supplies

Switching Power Supplies: Efficiently converts AC to DC power in compact designs

Uninterruptible Power Supplies (UPS): Provides reliable rectification for continuous power supply systems

Consumer Electronics

Home Appliances: Enhances power conversion in devices like microwaves and washing machines

Portable Devices: Ensures compact yet powerful rectification in smartphones and tablets

Industrial

Motor Drives: Supports high-power motor control systems with reliable rectification

Industrial Controls: Offers robust rectification for control systems in manufacturing environments

Automotive

Electric Vehicles (EVs): Powers onboard chargers and other high-power automotive applications

Battery Management Systems: Assures efficient power conversion and management in electric vehicles

Communication Systems

Radio Signal Modulation Amplitude Detection: Enables effective amplitude detection of modulating signals in RF communication systems.

Base Stations: Delivers reliable AC-DC conversion for communication infrastructure

CONTACT MCC TO REQUEST A SAMPLE

mccsemi.com | +818.701.4933

