

E502650

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Teminals: Plated Leads Solderable Per MIL-STD-750,Method 2026
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range(MB12S~MB14S): -55°C to +125°C
- Operating Junction Temperature Range(MB16S~MB110S): -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note2): 28°C/W Junction to Lead
- Typical Thermal Resistance(Note2): 88°C/W Junction to Ambient

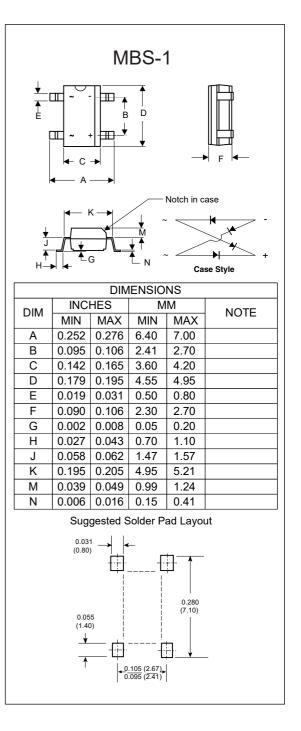
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB12S	MB12S	20V	14V	20V
MB14S	MB14S	40V	28V	40V
MB16S	MB16S	60V	42V	60V
MB18S	MB18S	80V	56V	80V
MB110S	MB110S	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1A	T _A = 75°C	
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, Half Sine	
Maximum Instantaneous Forward Voltage				
MB12S~MB14S MB16S MB18S~MB110S	V _F	0.50V 0.70V 0.85V	I _{FM} = 1A ; T _A = 25°C	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 10mA	T _A = 25°C T _A = 100°C	

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.
2. Thermal Resistance form Junction to Ambient and from Junction to Lead P.C.B. Mounted on 0.2*0.2"(5.0*5.0mm) Copper Pad Areas.

1 Amp Surface Mount Schottky Bridge Rectifier 20 to 100 Volts





Curve Characteristics

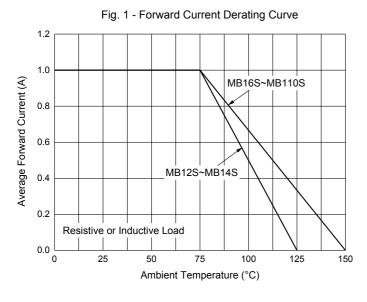


Fig. 3 - Typical Instantaneous Forward Characteristics

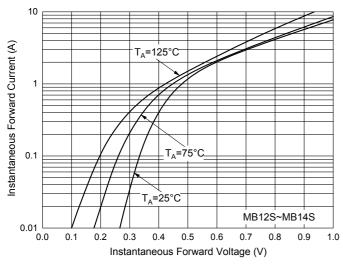
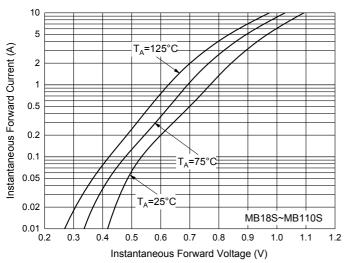


Fig. 5 - Typical Instantaneous Forward Characteristics



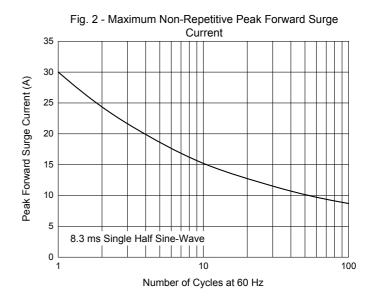


Fig. 4 - Typical Instantaneous Forward Characteristics

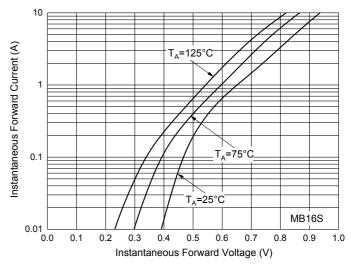
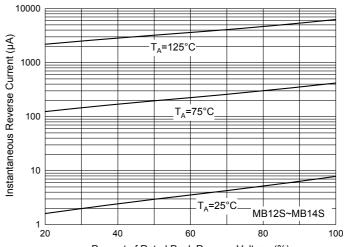


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Curve Characteristics

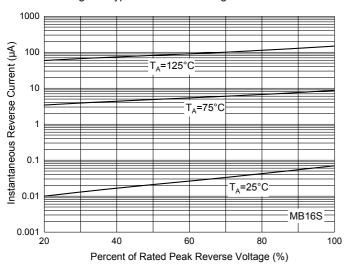


Fig. 7 - Typical Reverse Leakage Characteristics

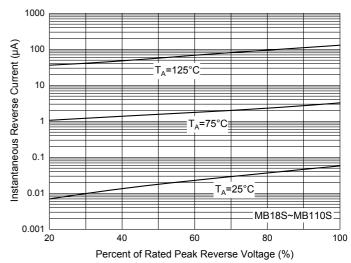


Fig. 8 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel:3Kpcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.