

### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- 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: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

• Typical Thermal Resistance: 20°C/W Junction to Lead

• Typical Thermal Resistance: 85°C/W Junction to Ambient

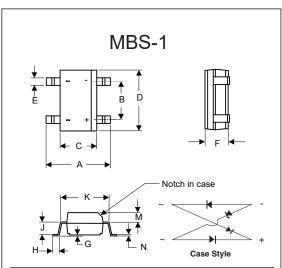
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB22S	MB22S	20V	14V	20V
MB24S	MB24S	40V	28V	40V
MB26S	MB26S	60V	42V	60V
MB28S	MB28S	80V	56V	80V
MB210S	MB210S	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	2A	See Fig.1
Peak Forward Surge Current	I <sub>FSM</sub>	50A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage MB22S~MB24S MB26S MB28S~MB210S	V <sub>F</sub>	0.50V 0.70V 0.85V	I <sub>FM</sub> = 2A ; T <sub>A</sub> = 25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA 10mA	T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C

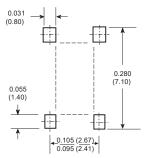
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

# 2 Amp SurfaceMount Schottky Bridge Rectifier 20 to 100 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.252	0.276	6.40	7.00	
В	0.095	0.106	2.41	2.70	
С	0.142	0.165	3.60	4.20	
D	0.179	0.195	4.55	4.95	
Е	0.019	0.031	0.50	0.80	
F	0.090	0.106	2.30	2.70	
G	0.002	0.008	0.05	0.20	
Н	0.027	0.043	0.70	1.10	
J	0.058	0.062	1.47	1.57	
K	0.195	0.205	4.95	5.21	
M	0.039	0.049	0.99	1.24	
N	0.006	0.016	0.15	0.41	

# Suggested Solder Pad Layout





### **Curve Characteristics**

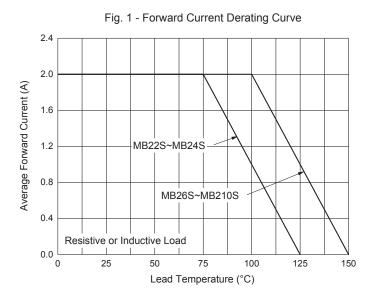


Fig. 3 - Typical Instantaneous Forward Characteristics

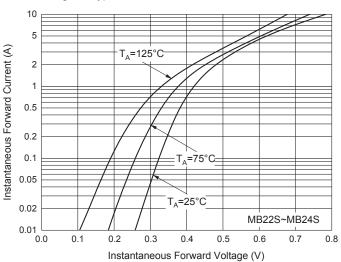
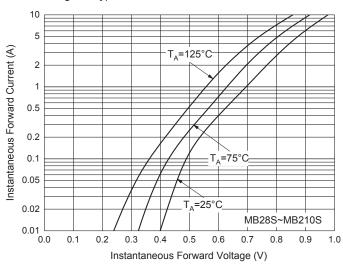


Fig. 5 - Typical Instantaneous Forward Characteristics



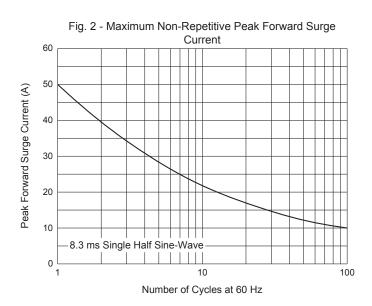


Fig. 4 - Typical Instantaneous Forward Characteristics

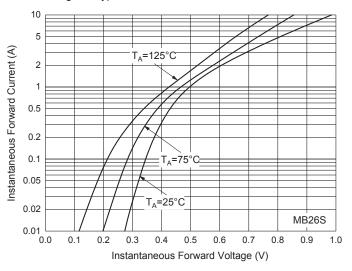
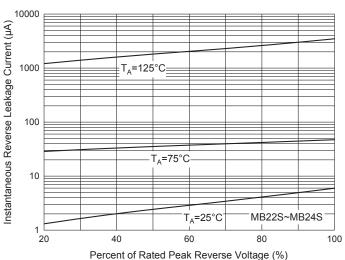


Fig. 6 - Typical Reverse Leakage Characteristics





# **Curve Characteristics**

Fig. 7 - Typical Reverse Leakage Characteristics

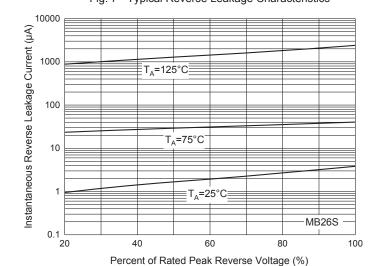


Fig. 8 - Typical Reverse Leakage Characteristics

0.001 T<sub>A</sub>=25°C MB28S~MB210S 0.001 20 40 60 80 100

Percent of Rated Peak Reverse Voltage (%)



# **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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

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