

# MB2M THRU MB10M

**Single Phase 0.8 AMPS.  
Silicon Bridge Rectifiers**

**Voltage Range  
200 to 1000 Volts  
Current  
0.8 Amperes**

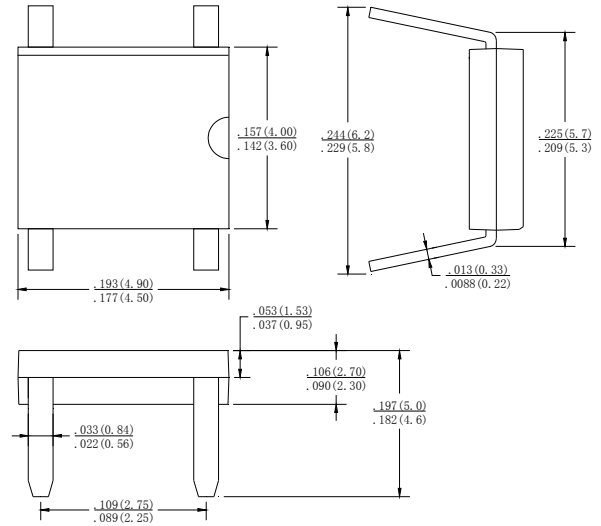
**Features**

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:  
260°C / 10 seconds / 0.375" ( 9.5mm )  
lead length at 5 lbs., ( 2.3 kg ) tension

**Mechanical Data**

- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked
- **Weight** : 0.140 grams

MBM



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number		MB2M	MB4M	MB6M	MB8M	MB10M	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> = 40°C	I(AV)	0.8					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	30					A
Maximum Instantaneous Forward Voltage @ 0.8A	V <sub>F</sub>	1.1					V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C rated DC blocking voltage per leg T <sub>A</sub> = 125°C	I <sub>R</sub>	5.0 500					μ A
Typical Thermal Resistance (Note)	R θ <sub>JC</sub>	75					°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150					°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150					°C

**NOTE:** Thermal Resistance Junction to Case.

# RATING AND CHARACTERISTIC CURVES MB2M THRU MB10M

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMELNT

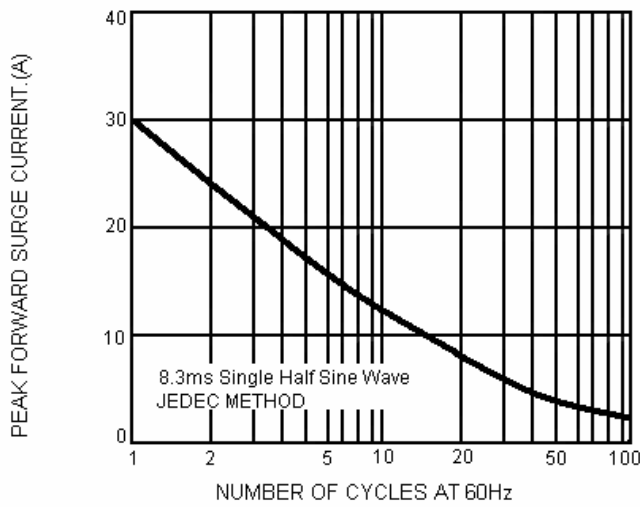


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

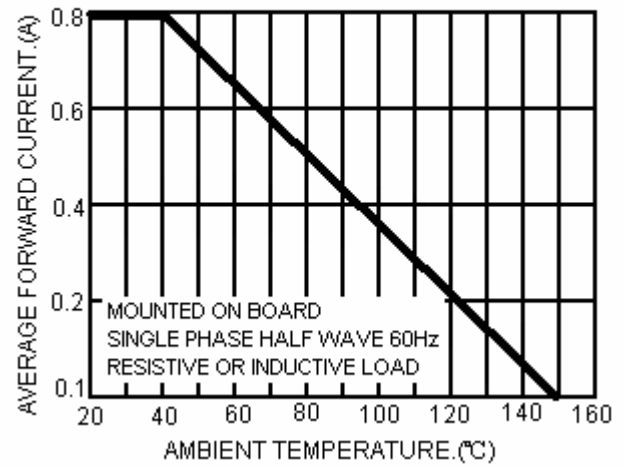


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

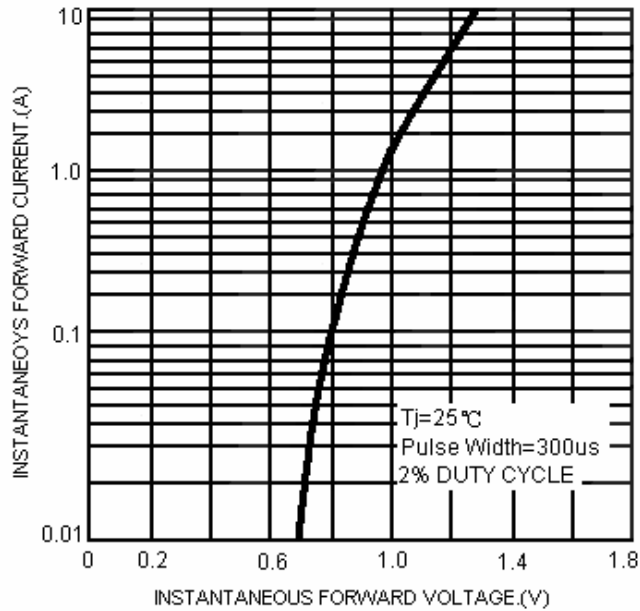


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

