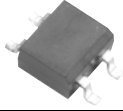




# MBS2 THRU MBS10

Single Phase 0.8 AMPS. Glass Passivated Bridge Rectifiers

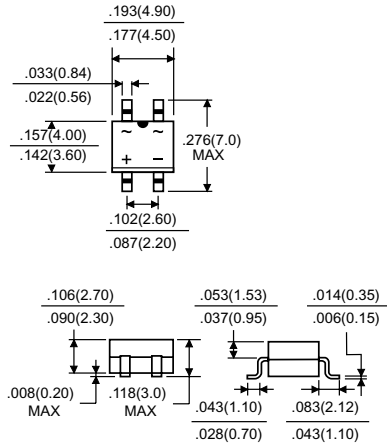


Voltage Range  
200 to 1000 Volts  
Current  
0.8 Amperes

## MBS

### Features

- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 250°C / 10 seconds at 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
- ✧ Leads solderable per MIL-STD-202 Method 208



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

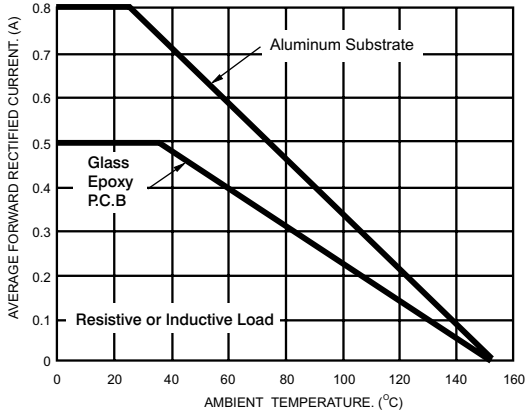
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

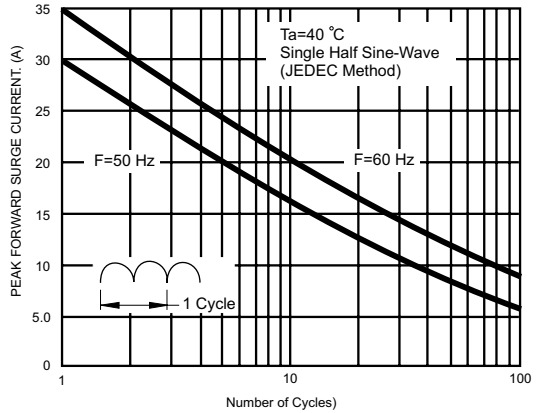
Type Number	MBS2	MBS4	MBS6	MBS8	MBS10	Units
Maximum Recurrent Peak Reverse Voltage	200	400	600	800	1000	V
Maximum RMS Voltage	140	280	420	560	700	V
Maximum DC Blocking Voltage	200	400	600	800	1000	V
Maximum Average Forward Rectified Current On glass-epoxy P.C.B. On aluminum substrate	0.5 0.8					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	35					A
Maximum Instantaneous Forward Voltage @ 0.4A	1.0					V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C	5.0 100					uA uA
Typical Junction Capacitance Per Leg	13					pF
Typical Thermal Resistance Per Leg R <sub>θJA</sub>	85					°C/W
Operating Temperature Range T <sub>J</sub>	-55 to +150					°C
Storage Temperature Range T <sub>STG</sub>	-55 to +150					°C

## RATINGS AND CHARACTERISTIC CURVES (MBS2 THRU MBS10)

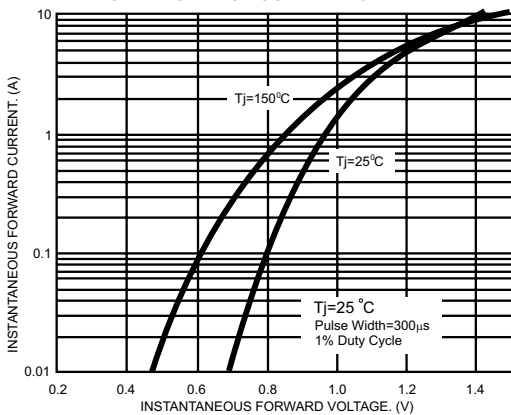
**FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



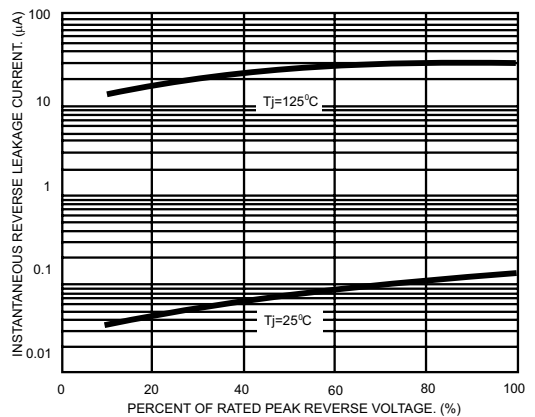
**FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



**FIG.3- TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG**



**FIG.4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG**



**FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG**

