

# MB2S THRU MB10S

## Single Phase 0.8 AMPS. Glass Passivated Bridge Rectifiers

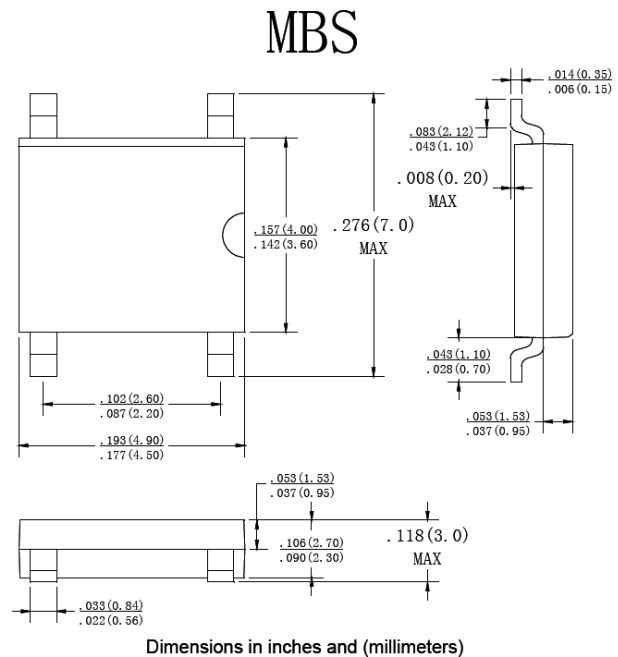
Voltage Range 200 to 1000 Volts Current 0.8 Amperes

### 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
- ◆ UL Recognized File number: E347214

### MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Lead: solder plated
- ◆ Polarity: As marked



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOLS	MB2S	MB4S	MB6S	MB8S	MB10S	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 On glass-epoxy P.C.B. On aluminum substrate	I <sub>(AV)</sub>			0.5 0.8			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>			35			A
Maximum Instantaneous Forward Voltage at 0.4A	V <sub>F</sub>			1.0			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			μA
Typical Thermal Resistance (Note1) (Note2)	R <sub>θJA</sub> R <sub>θJL</sub>			70 20			°C/W
Operating Temperature Range	T <sub>J</sub>			-55 to +150			°C
Storage Temperature Range	T <sub>STG</sub>			-55 to +150			°C

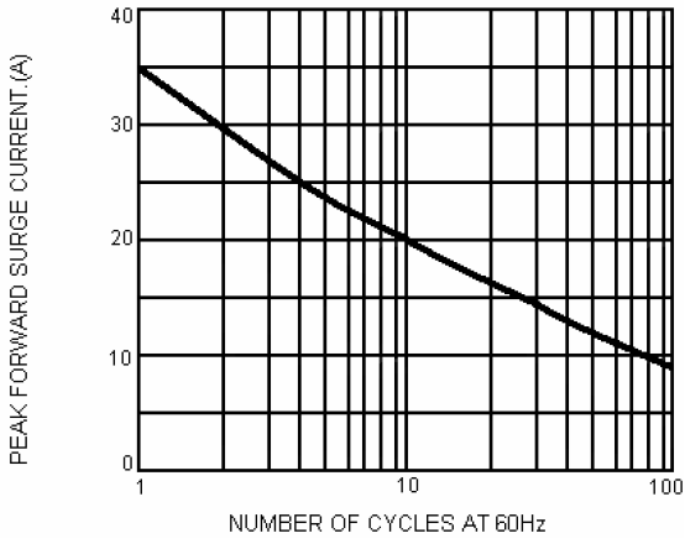
**Note:** 1. On aluminum substrate P.C.B. with an area of 0.8×0.8"(20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad.

2. Thermal Resistance from Junction to Case with units Mounted on 2.6×1.4×0.06" Thick(6.5×3.5×0.15cm)Al. Plate.

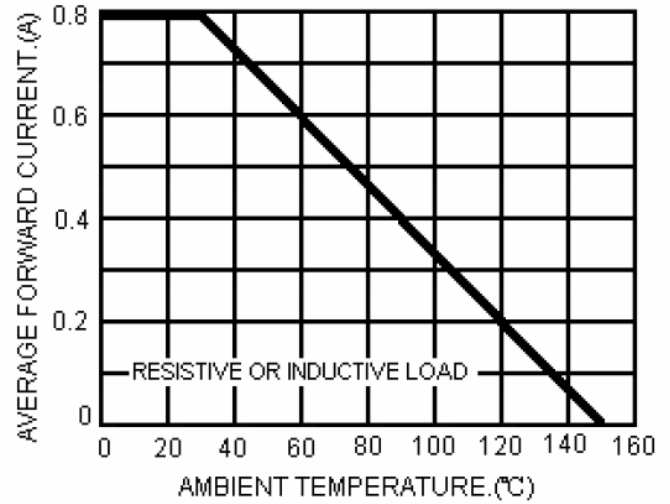
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## RATING AND CHARACTERISTIC CURVES MB2S THRU MB10S

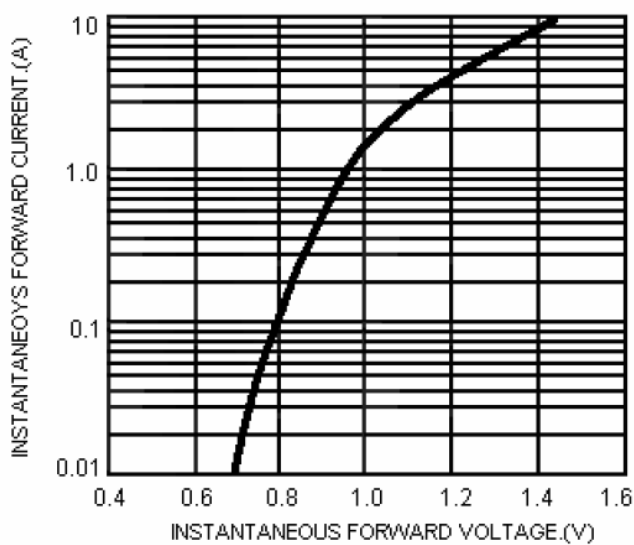
**FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMNT**



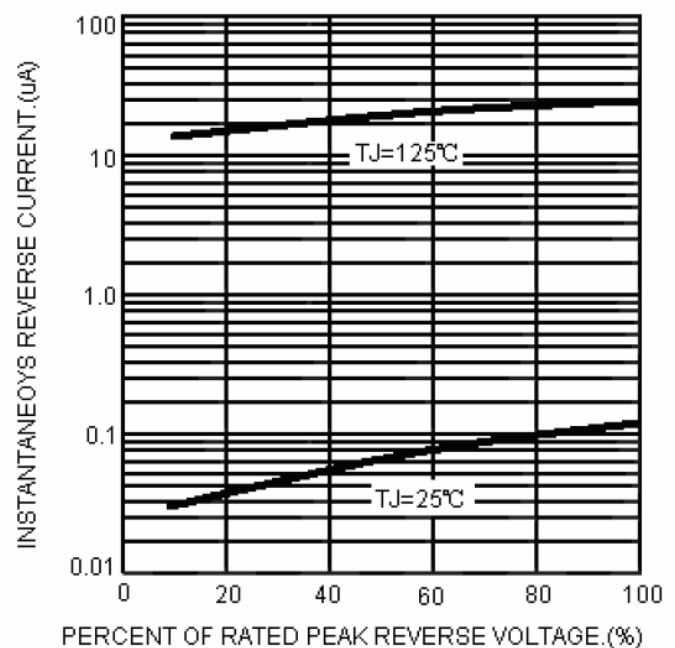
**FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE**



**FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**



Note: Specifications are subject to change without notice.