

MB2S THRU MB10S

Single Phase 0.8 AMPS. Glass Passivated Bridge Rectifiers

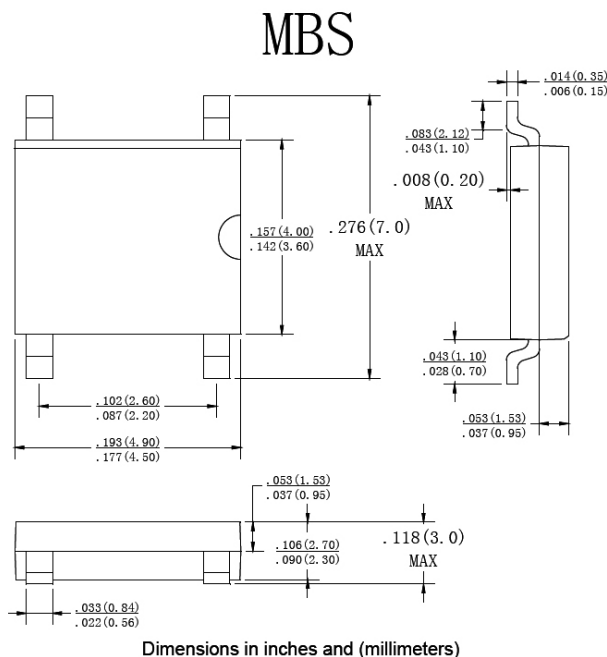
Voltage Range 200 to 1000 Volts Current 0.8 Amperes

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_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current On glass-epoxy P.C.B. On aluminum substrate	$I_{(AV)}$	0.5 0.8					A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	35					A
Maximum Instantaneous Forward Voltage at 0.4A	V_F	1.0					V
Maximum DC Reverse Current @ $T_A=25^{\circ}\text{C}$ Rated DC Blocking voltage per leg $T_A=125^{\circ}\text{C}$	I_R	5.0 500					μA
Typical Thermal Resistance (Note1) (Note2)	$R_{\theta JA}$ $R_{\theta JL}$	70 20					$^{\circ}\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150					$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150					$^{\circ}\text{C}$

Note: 1. On aluminum substrate P.C.B. with an area of 0.8×0.8 " ($20 \times 20\text{mm}$) mounted on 0.05×0.05 " ($1.3 \times 1.3\text{mm}$) solder pad.

2. Thermal Resistance from Junction to Case with units Mounted on $2.6 \times 1.4 \times 0.06$ " Thick ($6.5 \times 3.5 \times 0.15\text{cm}$) Al. Plate.

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RATING AND CHARACTERISTIC CURVES MB2S THRU MB10S

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

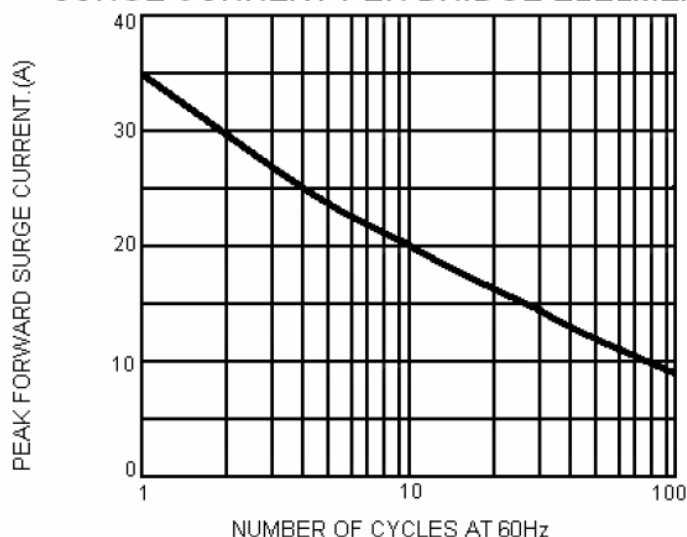


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

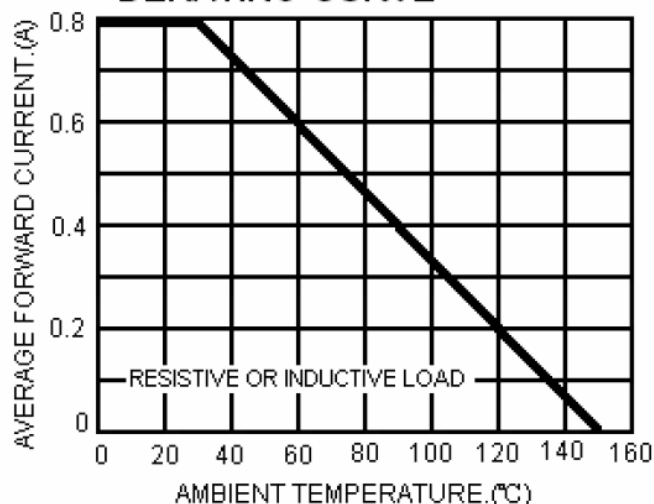


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

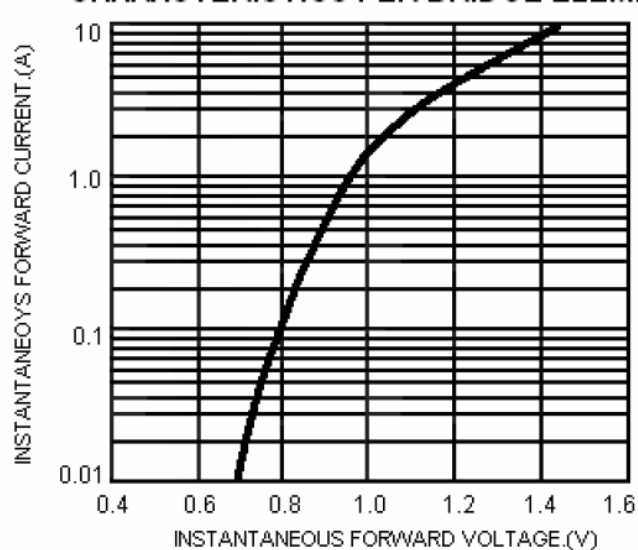
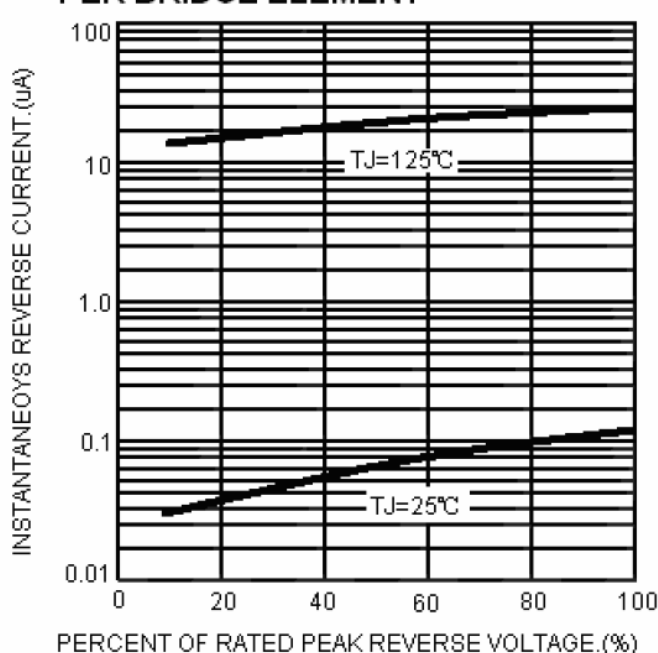


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.