

# MB2S THRU MB10S

Single Phase 0.8 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 200 to 1000 Volts Current 0.8 Amperes

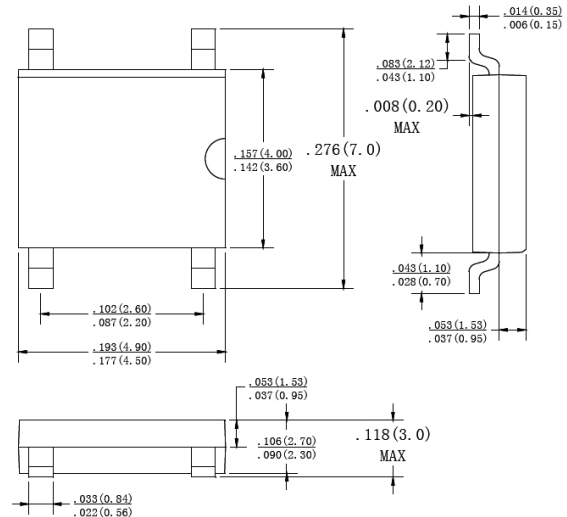
## FEATURES

- ◆ 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: E347215

## Mechanical Data

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

## MBS



Dimensions in inches and (millimeters)

## 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%

Type Number		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	$I_{(AV)}$	0.5					A
On glass-epoxy P.C.B.		0.8					
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					$\mu\text{A}$
Typical Thermal Resistance (Note1)	$R_{\theta JA}$	70					$^\circ\text{C/W}$
(Note2)	$R_{\theta JL}$	20					
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" (20×20mm) mounted on 0.05×0.05" (1.3×1.3mm) solder pad.

2. On glass epoxy P.C.B. mounted on 0.05×0.05" (1.3×1.3mm) pads.

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## RATING AND CHARACTERISTIC CURVES MB2S THRU MB10S

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

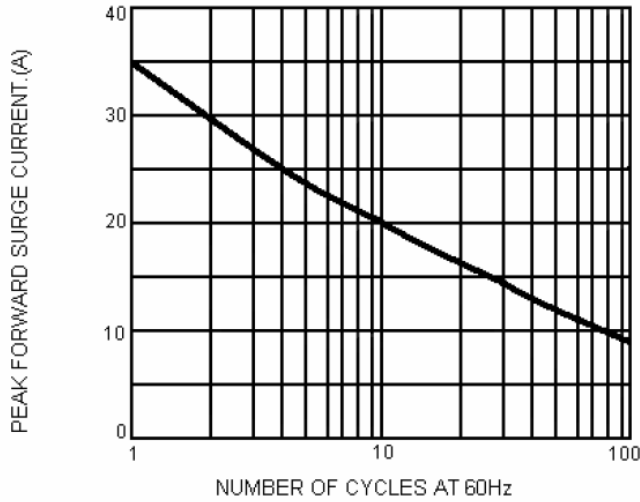


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

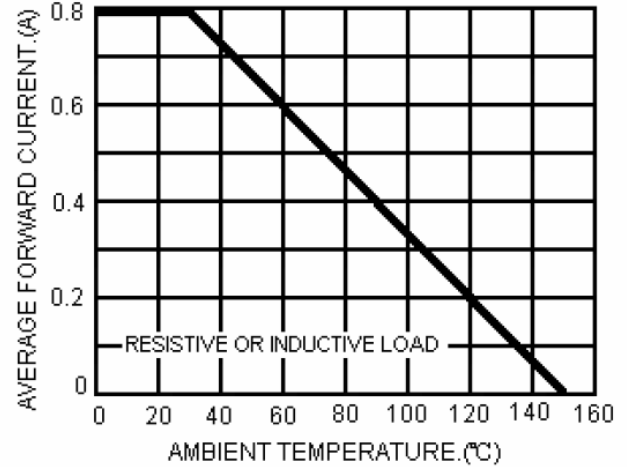


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

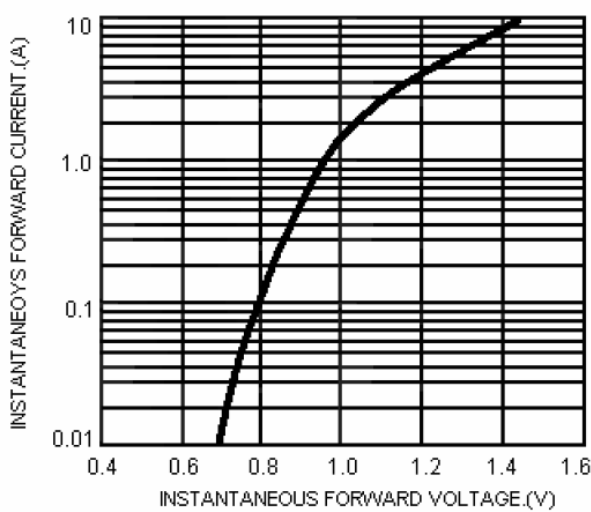
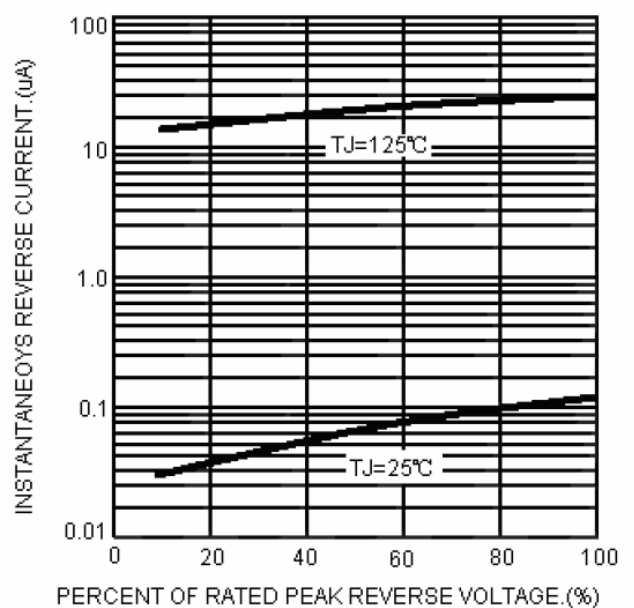


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specification are subject to change without notice. For more detail and update, please visit our website.