

# MB6S-08~MB10S-08

## SINGE PHASE 0.8AMP GLASS PASSIVATED BRIDGE RECTIFIERS

**Voltage**

**600~1000 V**

**Current**

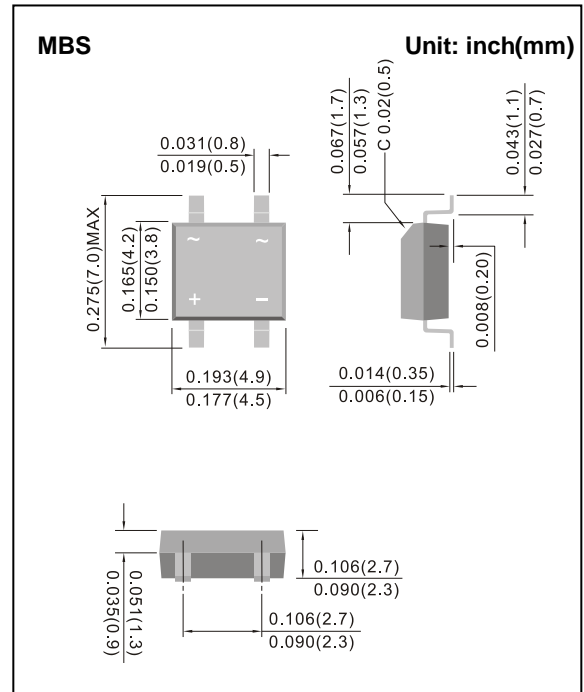
**0.8 A**

### Features

- Ideal for printed circuit board  
Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- High surge current capability
- Small size simple installation
- Lead free in compliance with EU RoHS 2011/65/EU directive.

### Mechanical Data

- Case: MBS Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Approx weight : 0.0042 ounce, 0.12 gram



### Maximum Ratings ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	MB6S-08	MB8S-08	MB10S-08	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	600	800	1000	V
Maximum rms voltage	$V_{RMS}$	420	560	700	V
Maximum dc blocking voltage	$V_R$	600	800	1000	V
Maximum average forward current per diode	$I_{F(AV)}$	0.8			A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load per diode	$I_{FSM}$	30			A
Maximum forward voltage at 0.8A per diode	$V_F$	1.1			V
Maximum dc reverse current at rated dc blocking voltage per diode	$I_R$	5			$\mu\text{A}$
Typical junction capacitance Measured at 1MHz and applied $V_R=4\text{V}$	$C_J$	9			pF
Typical thermal resistance per diode	(Note 1) $R_{\theta JA}$ (Note 2) $R_{\theta JC}$ (Note 2) $R_{\theta JL}$	85 14 20			$^{\circ}\text{C/W}$
Operating junction temperature	$T_J$	-55 to +150			$^{\circ}\text{C}$
Storage temperature	$T_{STG}$	-55 to +150			$^{\circ}\text{C}$

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.  
2. Mounted on a FR4 PCB with 100cm<sup>2</sup> copper pad area.



# MB6S-08~MB10S-08

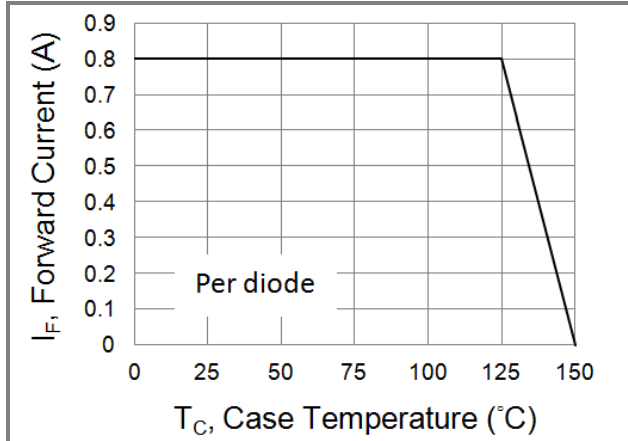


Fig.1 Forward Characteristics

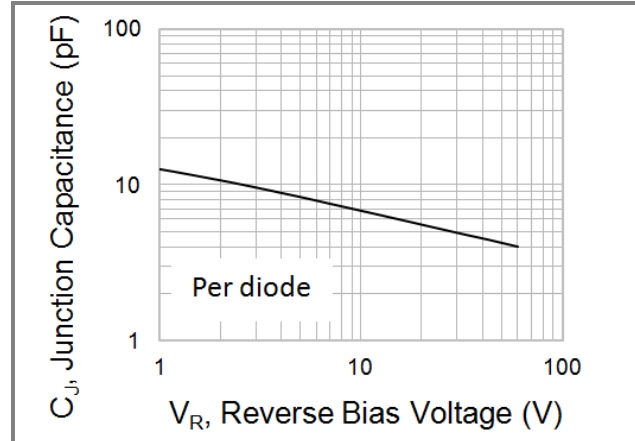


Fig.2 Typical Junction Capacitance

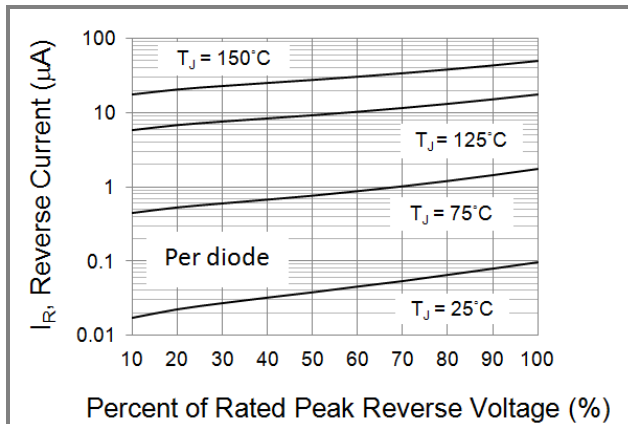


Fig.3 Typical Reverse Characteristics

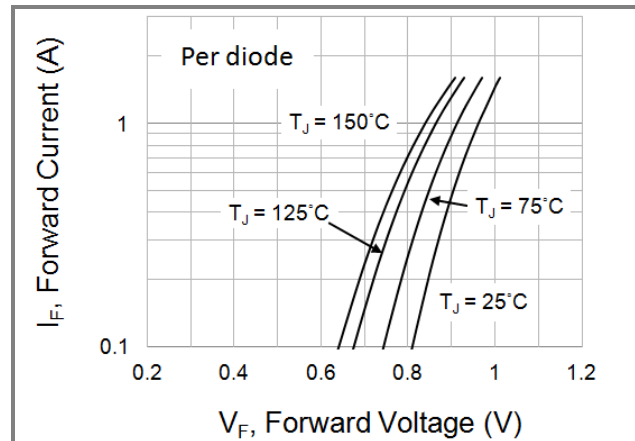


Fig.4 Typical Forward Characteristics

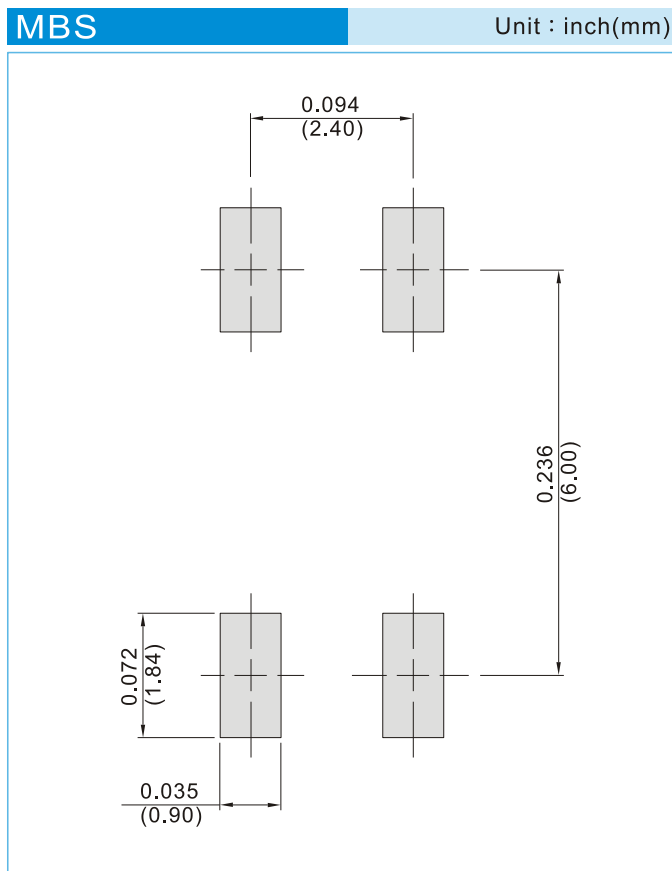


## MB6S-08~MB10S-08

### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
MB6S-08_R2_00001	MBS	3K pcs / 13" reel	MB608	Halogen free
MB8S-08_R2_00001	MBS	3K pcs / 13" reel	MB808	Halogen free
MB10S-08_R2_00001	MBS	3K pcs / 13" reel	MB1008	Halogen free

### MOUNTING PAD LAYOUT





## **MB6S-08~MB10S-08**

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