



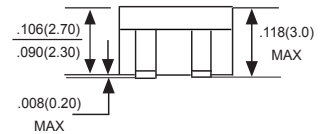
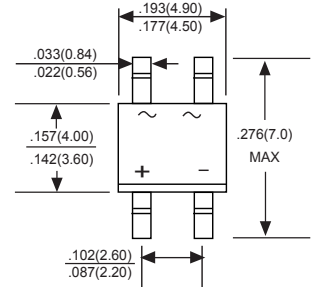
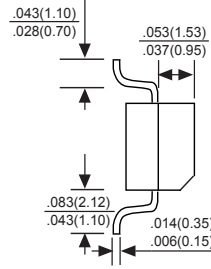
# MB05S THRU MB10S

Voltage Range - 50 to 1000 V olts Current - 0.5/0.8 Ampere

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

### Features

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability



Dimensions in inches and (millimeters)

### Mechanical Data

**Case** : JEDEC MBS Molded plastic body  
**Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026  
**Polarity** : Polarity symbol marking on body  
**Mounting Position** : Any  
**Weight** : 0.0035 ounce, 0.1 grams

### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	SYMBOLS	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
		MDD MB05S	MDD MB1S	MDD MB2S	MDD MB4S	MDD MB6S	MDD MB8S	MDD MB10S	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at $T_C=125^\circ\text{C}$	$I_{F(AV)}$				0.5 0.8				A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$				30				A
Maximum instantaneous forward voltage drop per leg at 1A	$V_F$				1.0				V
Maximum DC reverse current at rated DC blocking voltage	$I_R$				5 500				$\mu\text{A}$ $\mu\text{A}$
Typical junction capacitance	$C_J$				13				pF
Typical thermal resistance	$R_{\theta JA}$				70				$^\circ\text{C}/\text{W}$
Operating temperature range	$T_J$				-55 to +150			$^\circ\text{C}$	
storage temperature range	$T_{STG}$				-55 to +150			$^\circ\text{C}$	

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.  
 2. Mounted on glass epoxy PC board with 4×1.5"×1.5" ( 3.81×3.81 cm ) copper pad.



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## Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT FOR

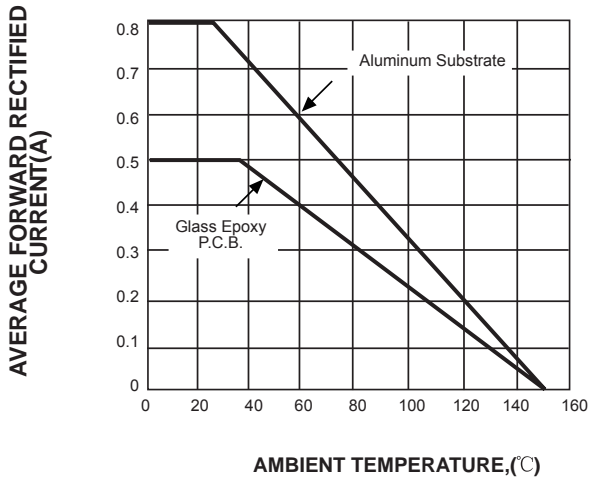


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

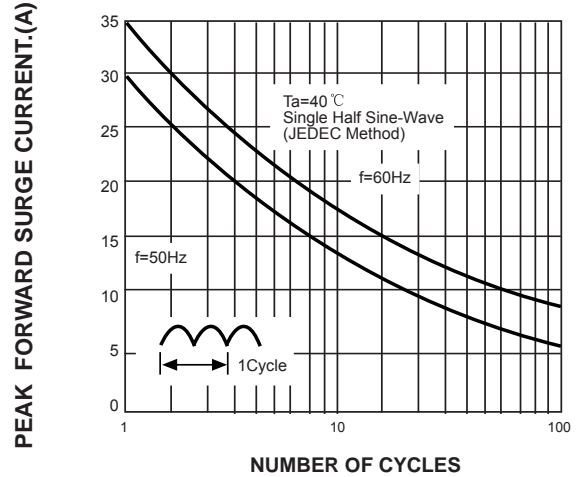


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

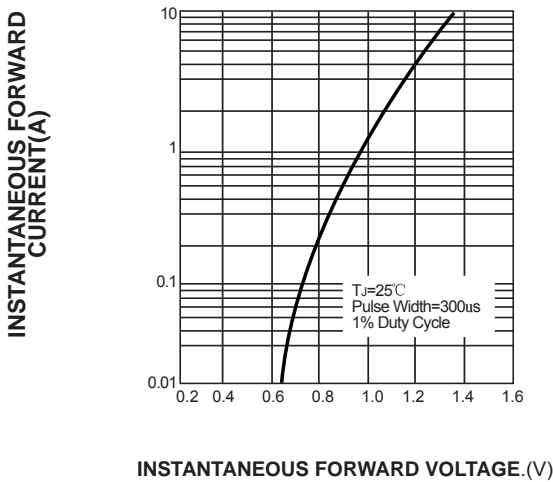


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

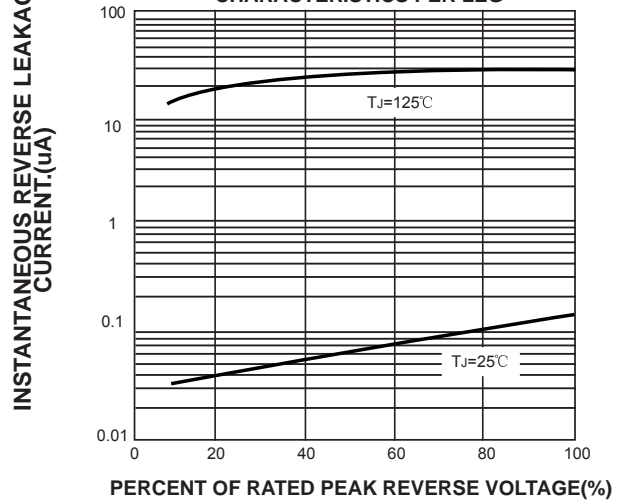
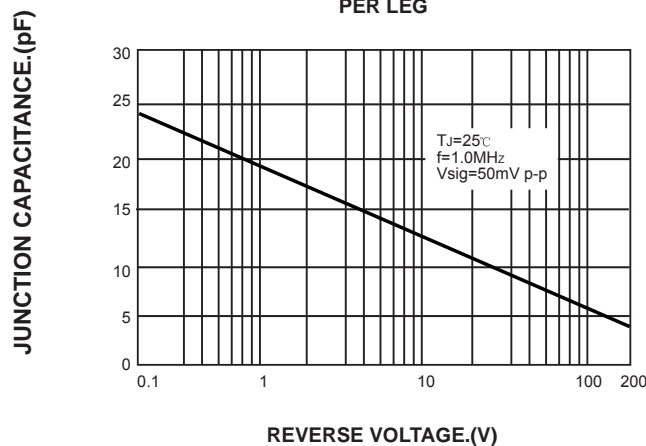


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER LEG



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>MDD\(辰达行\)](#)