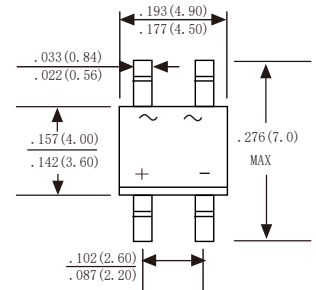
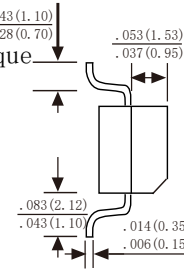


## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

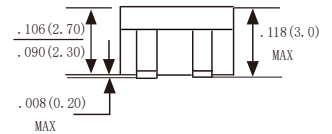
### Features

- ☑ 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



### 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 : 0.035 ounce, 01 grams



Dimensions in inches and (millimeters)

### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

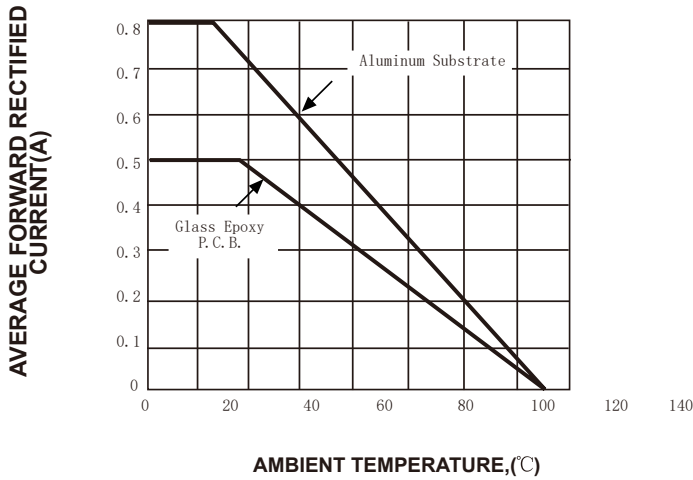
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
		MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	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 $T_C=125^\circ C$	$I_{F(AV)}$	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						uA uA	
Typical junction capacitance	$C_J$	13						pF	
Typical thermal resistance	$R_{\theta JA}$	70						°C/W	
Operating temperature range	$T_J$	-55 to +150						°C	
storage temperature range	$T_{STG}$	-55 to +150						°C	

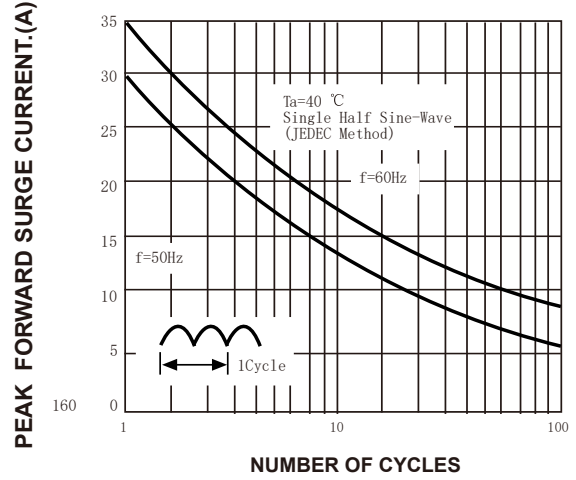
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.  
 2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

## Ratings And Characteristic Curves

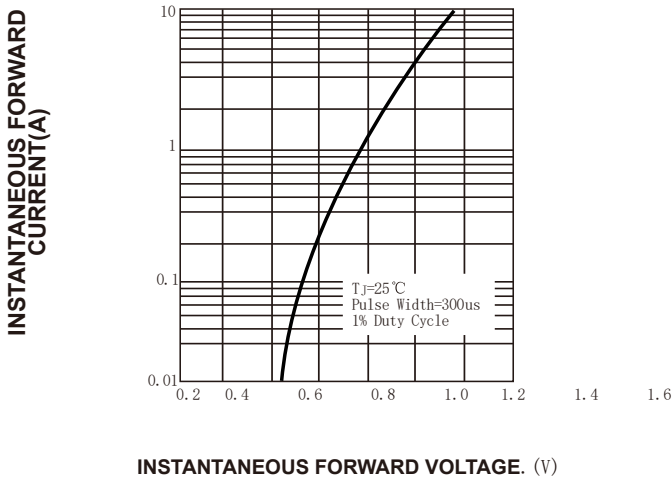
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT FOR**



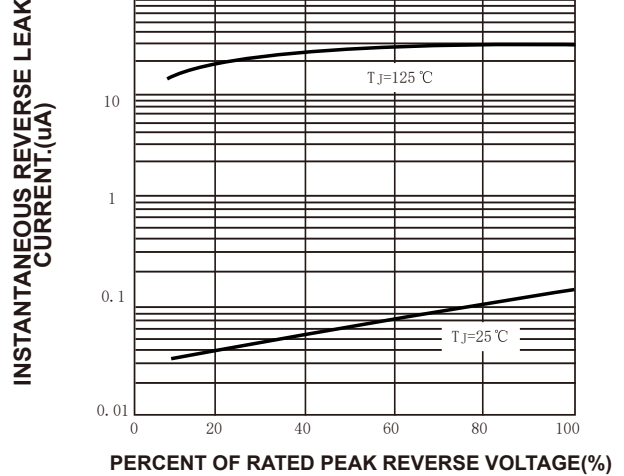
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



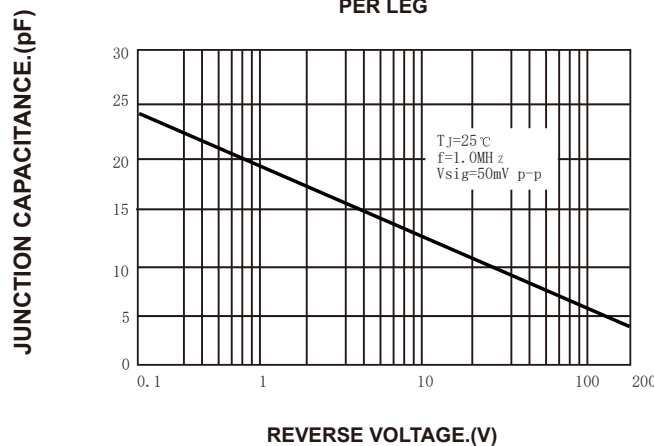
**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG**



**FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG**



**FIG. 5-TYPICAL JUNCTION CAPACITANCE PER LEG**



The curve above is for reference only.