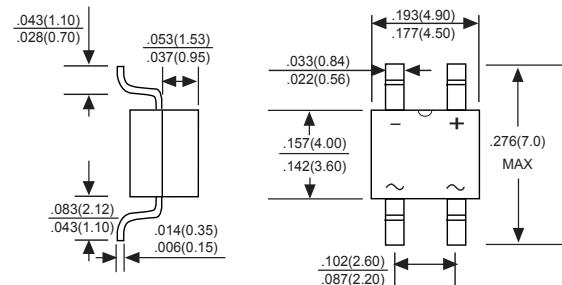


## GLASS PASSIVATED FAST RECOVERY BRIDGE RECTIFIERS

### 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

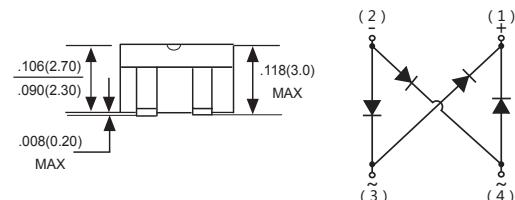
**Case :** JEDEC MBS Molded plastic body

**Terminals :** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity :** Polarity symbol marking on body

**Mounting Position :** Any

**Weight :** 0.0035 ounce, 0.1 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	MDD RMB2S	MDD RMB4S	MDD RMB6S	MDD RMB8S	MDD RMB10S	UNITS
Marking Code							
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.(Note1) On aluminum substrate(Note2)	$I_{F(AV)}$			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 0.4A	$V_F$			1.3			V
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=125^\circ C$	$I_R$			5 500			uA
Maximum reverse recovery time (NOTE 4)	$t_{rr}$	150		250	500		ns
Typical thermal resistance(NOTE 3)	$R_{\theta JL}$ $R_{\theta JA}$			28 85			°C/W
Operating temperature range	$T_J$			-55 to +150			°C
storage temperature range	$T_{STG}$			-55 to +150			°C

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads.

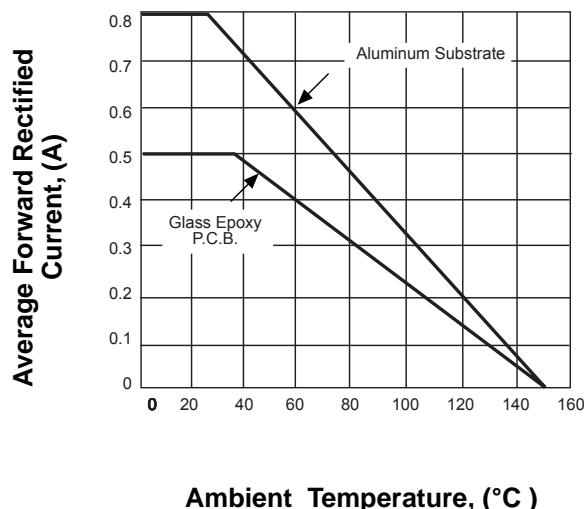
2.On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad.

3.Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm)copper pads.

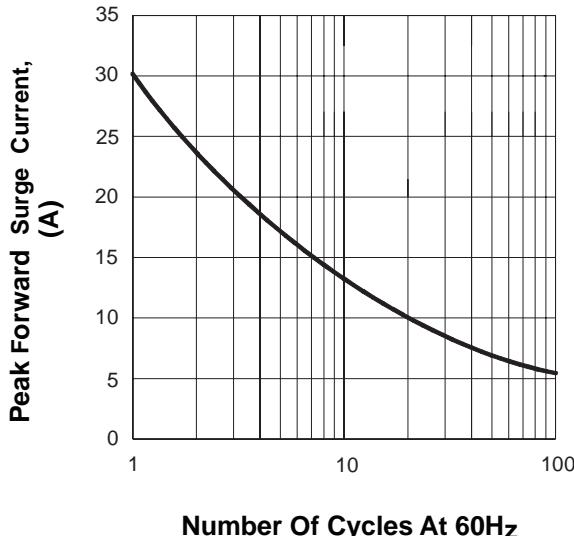
4.Reverse recovery condition  $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$ .

## Ratings And Characteristic Curves

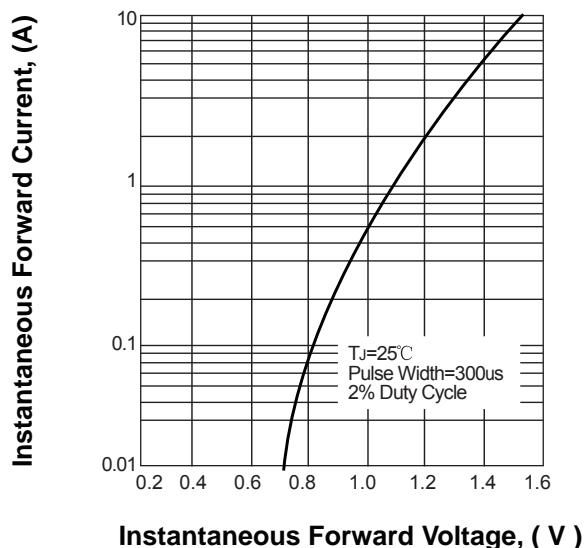
**FIG.1 FORWARD DERATING CURVE**



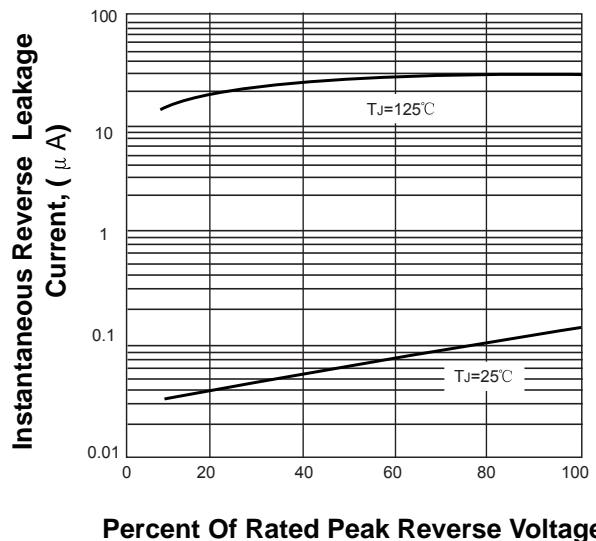
**FIG.2 PEAK FORWARD SURGE CURRENT**



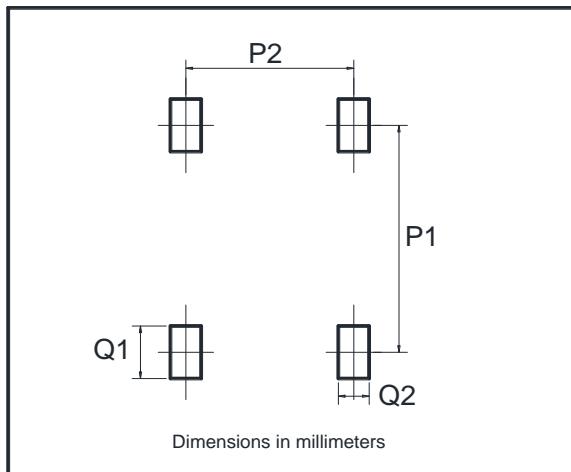
**FIG.3 TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 TYPICAL REVERSE CHARACTERISTICS**



The curve above is for reference only.

**Suggested Pad Layout**

Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20