

**SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER**
**Feature**

- Glass Passivated Die Construction
- Low Forward Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application

**Maximum Ratings and Electrical characteristics**

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

Parameter	Symbol	MB 1S	MB 2S	MB 4S	MB 6S	MB 8S	MB 10S	Units
Peak repetitive Reverse Voltage	$V_{RRM}$							
Working Peak Reverse Voltage	$V_{RWM}$	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$							
RMS Reverse Voltage	$V_{RMS}$	70	140	280	420	560	700	V
Averager Rectified Output Current (Note 1) @ $T_A=40^{\circ}C$	$I_O$	0.5						A
Averager Rectified Output Current (Note 2) @ $T_A=40^{\circ}C$		0.8						
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on rated Load(JEDEC Method)	$I_{FSM}$	30						A
$I^2t$ Rating for Fusing( $t<8.3ms$ )	$I^2t$	3.7						$A^2s$
Forward Voltage per element @ $I_F=0.4A$	$V_{FM}$	1.05						V
Peak Reverse Current $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=125^{\circ}C$	$I_{RM}$	10.0 500						$\mu A$
Typical Junction Capacitance per leg (Note 3)	$C_j$	13						pF
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$ $R_{\theta JI}$	134 20						$^{\circ}C/W$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150						$^{\circ}C$

Note:

1. Mounted on glass epoxy PC board with  $1.3mm^2$  solder pad.
2. Mounted on aluminum substrate PC board with  $1.3mm^2$  solder pad.
3. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

Typical Characteristics

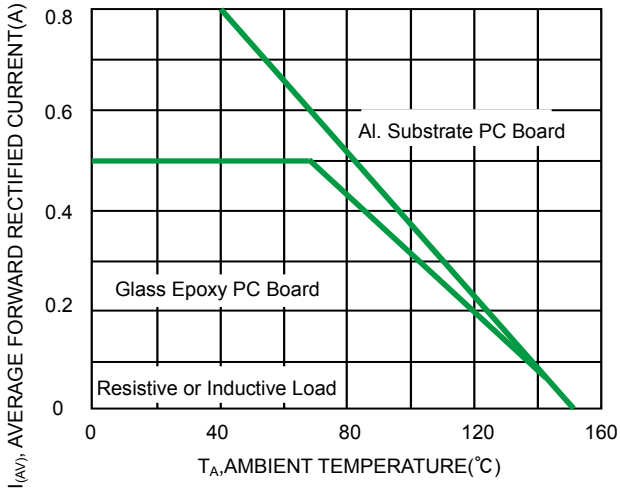


Fig 1 Output Current Derating Curve

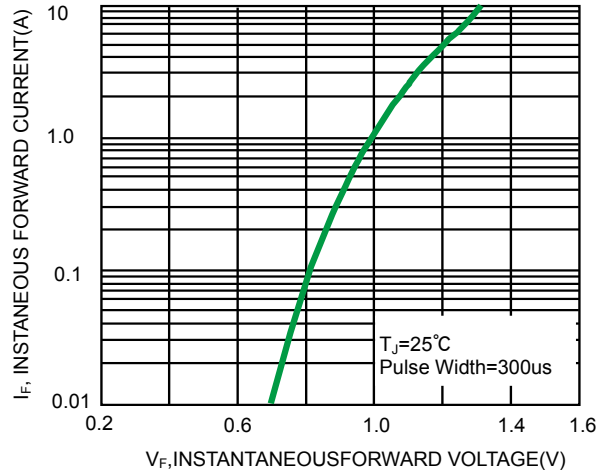


Fig 2. Typical Forward Characteristics (per leg)

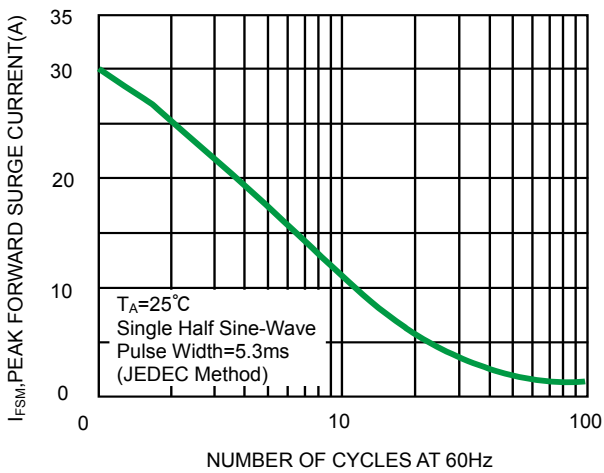


Fig 3. Maximum Peak Forward Surge Current(per leg)

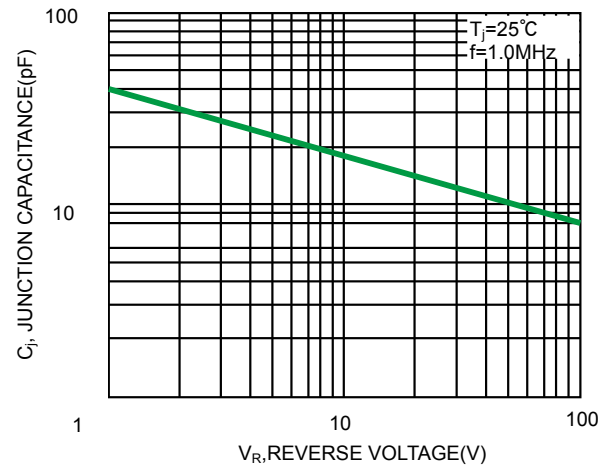
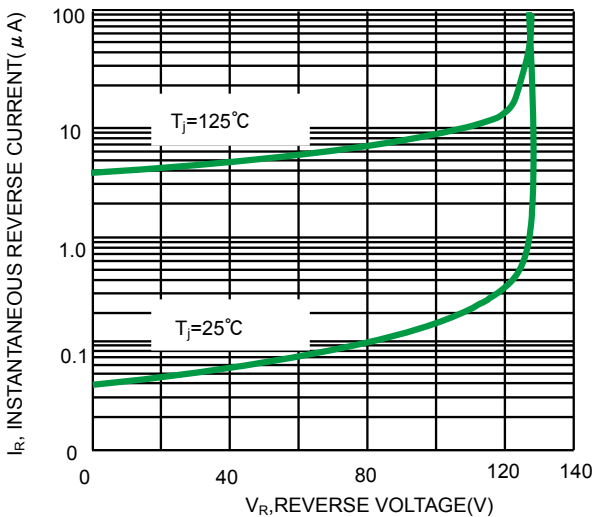
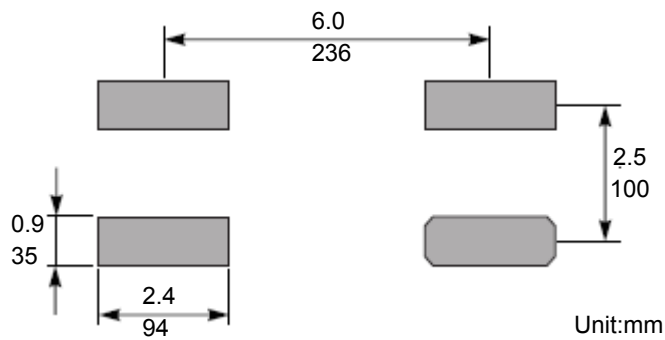
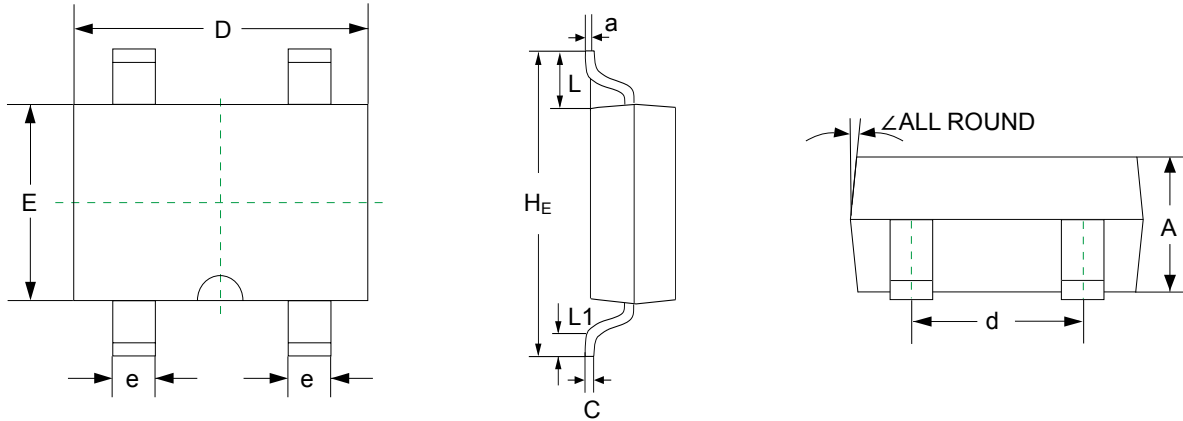


Fig 4. Typical Junction Capacitance



**Product dimension (MBS)**




Dim	Millimeters	
	MIN	MAX
A	2.20	2.60
C	0.15	0.22
D	4.50	5.00
E	3.60	4.10
$H_E$	6.40	7.00
d	2.30	2.70
e	0.50	0.70
L	1.30	1.70
L1	0.50	1.10
a	--	0.20
$\angle$	7°	

**Ordering information**

Device	Package	Shipping
MB1S ~MB10S	MBS (Pb-Free)	3000 / Tape & Reel


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