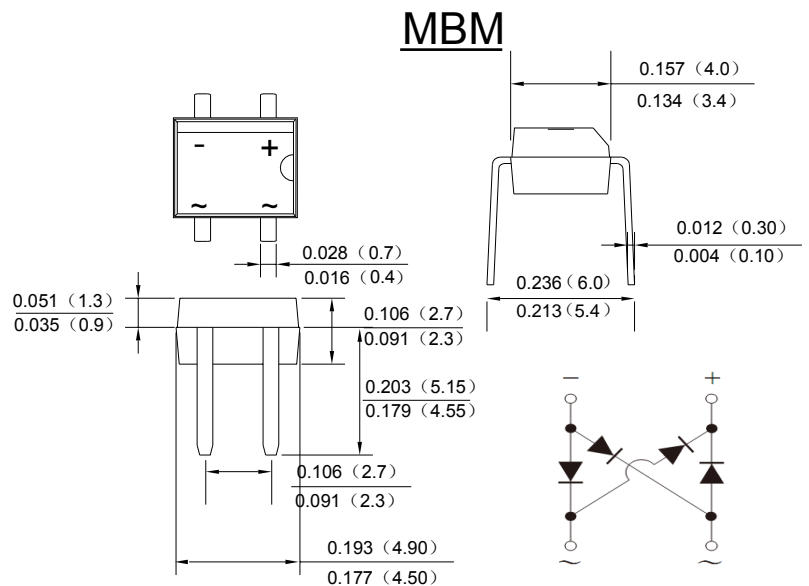


### Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-35A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

### Mechanical Data

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number



dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
 Single Phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	EMB1MU	EMB2MU	EMB4MU	EMB6MU	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	400	600	V
Working Peak Reverse Voltage	$V_{RWM}$					
DC Blocking Voltage	$V_{DC}$					
RMS Reverse Voltage	$V_{RMS}$	70	140	280	420	V
Average Rectified Output Current (Note 1)@ $T_c=100^\circ C$	$I_F(AV)$	1.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	35				A
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	5.084				A <sup>2</sup> s
Forward Voltage per element @ $I_F=1.0A$	$V_{FM}$	0.95	1.25	1.7		V
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	$I_R$	5.0 200				uA
Maximum reverse recovery time (Note 2)	$T_{RR}$	35				ns
Typical Junction Capacitance per leg (Note 3)	$C_J$	13				pF
Typical Thermal Resistance per leg	$R_{\theta JA}$	60				°C/W
	$R_{\theta JL}$	16				
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55to+150				°C

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
 2. Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .  
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Fig. 1 Output Current Derating Curve

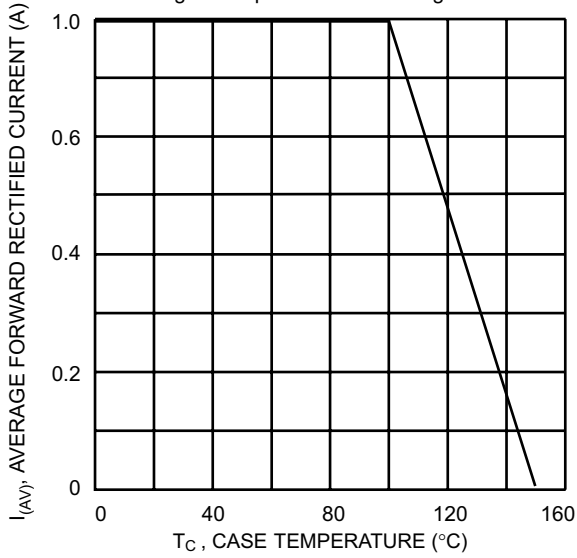


Fig. 2 Typical Forward Characteristics (per leg)

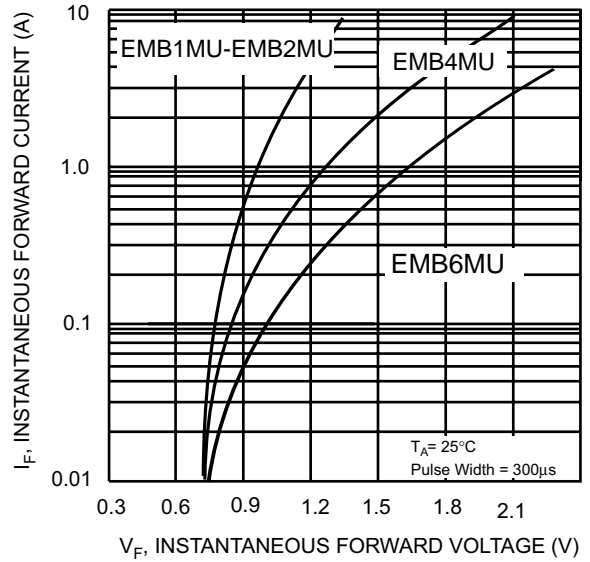


Fig. 3 Maximum Peak Forward Surge Current (per leg)

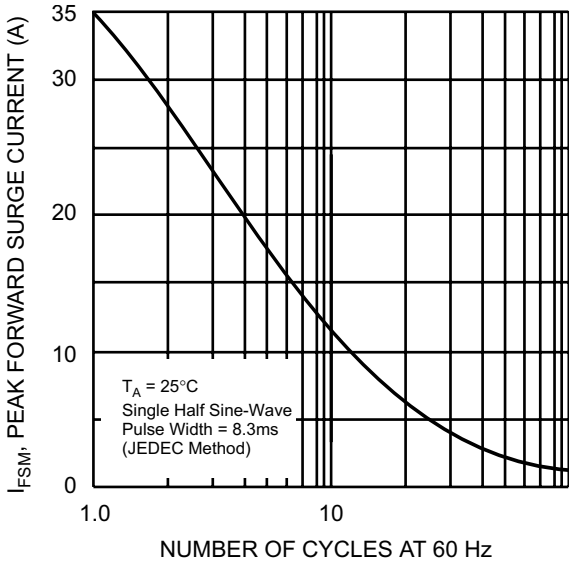


Fig. 4 Typical Junction Capacitance

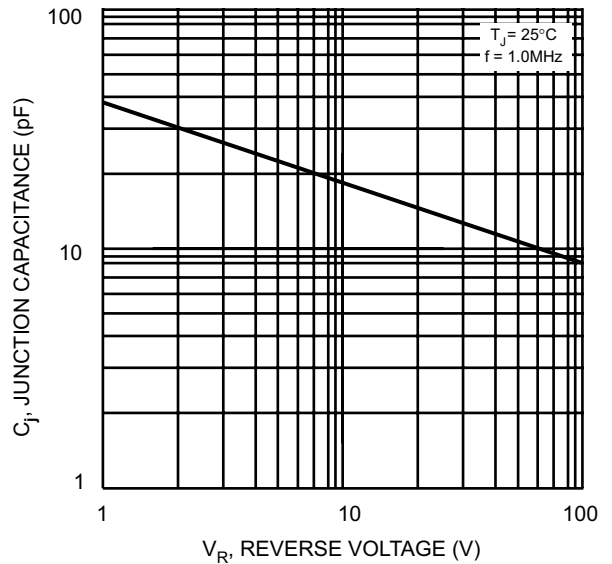
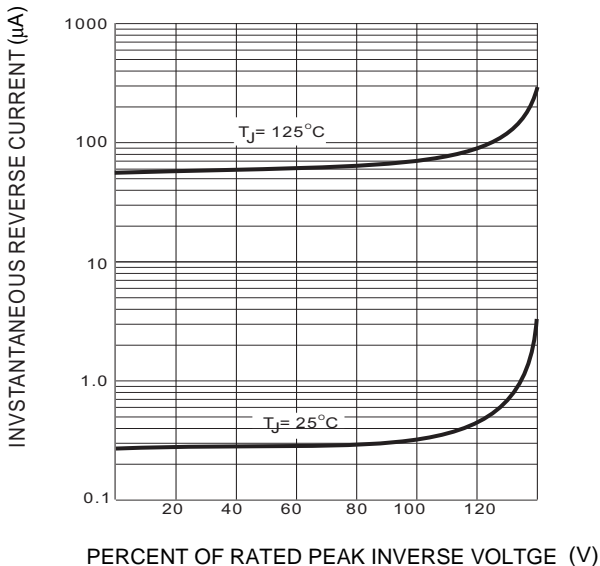


FIG.5 TYPICAL REVERSE CHARACTERISTICS



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