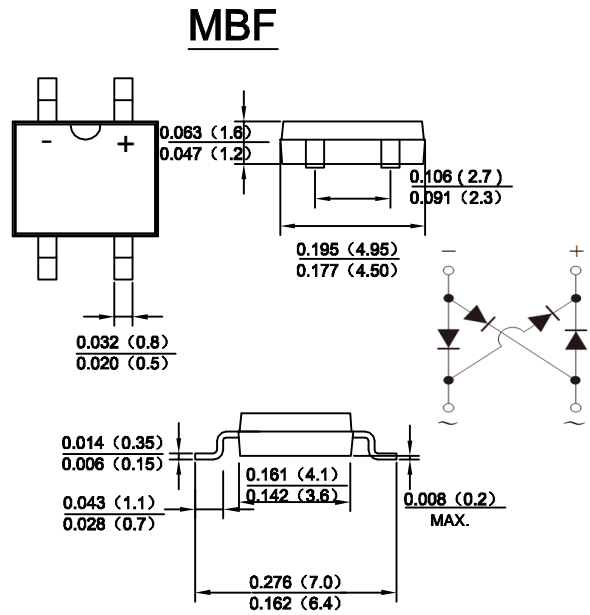


Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
Surge overload rating-30A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

Mechanical Data

- Case: MB-F, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,



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	RMB1F	RMB2F	RMB4F	RMB6F	RMB8F	RMB10F	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}							
DC Blocking Voltage	V_{DC}							
RMS Reverse Voltage	V_{RMS}	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_c=100^\circ C$ (Note 2)@ $T_c=100^\circ C$	$I_F(AV)$	0.5 0.8						A
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	3.735						A^2s
Forward Voltage per element @ $I_F=1.0A$	V_{FM}	1.3						V
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	5.0 200						μA
Maximum reverse recovery time (Note 3)	T_{RR}	150		250		500		ns
Typical Junction Capacitance per leg (Note4)	C_J	13						pF
Typical Thermal Resistance per leg	$R_{\theta JA}$	60						$^\circ C/W$
	$R_{\theta JL}$	16						
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150						$^\circ C$

- Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
 3. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
 4. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Fig. 1 Output Current Derating Curve

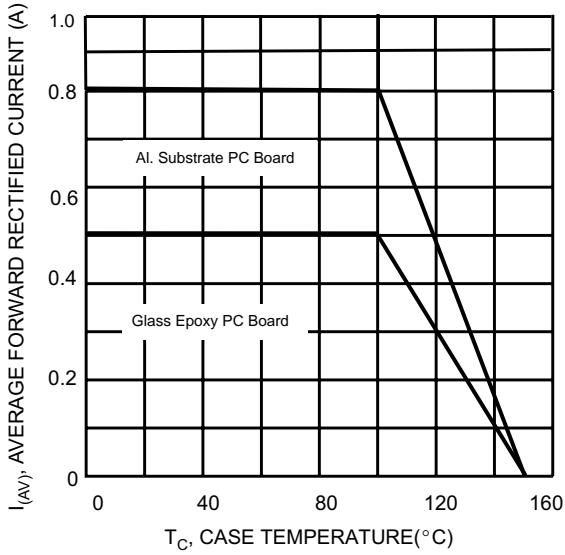


Fig. 2 Typical Forward Characteristics (per leg)

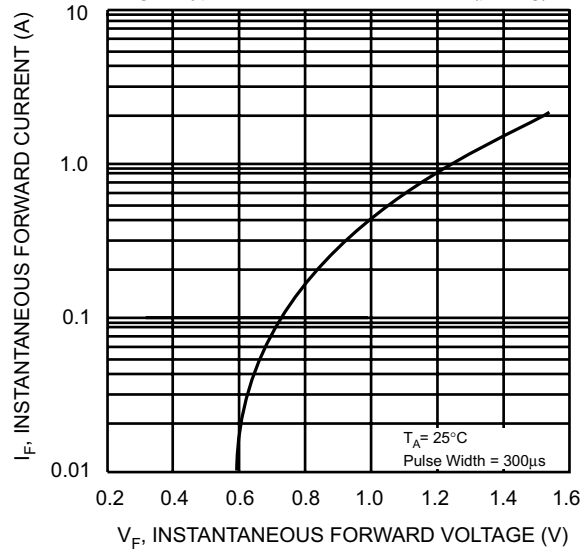


Fig. 3 Maximum Peak Forward Surge Current (per leg)

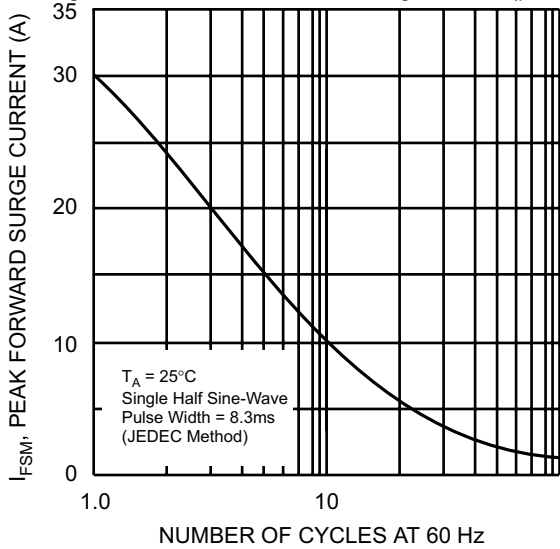


Fig. 4 Typical Junction Capacitance

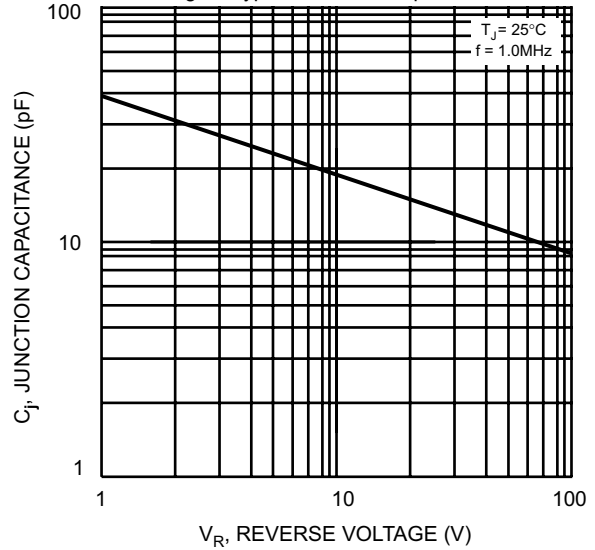


FIG.5 TYPICAL REVERSE CHARACTERISTICS

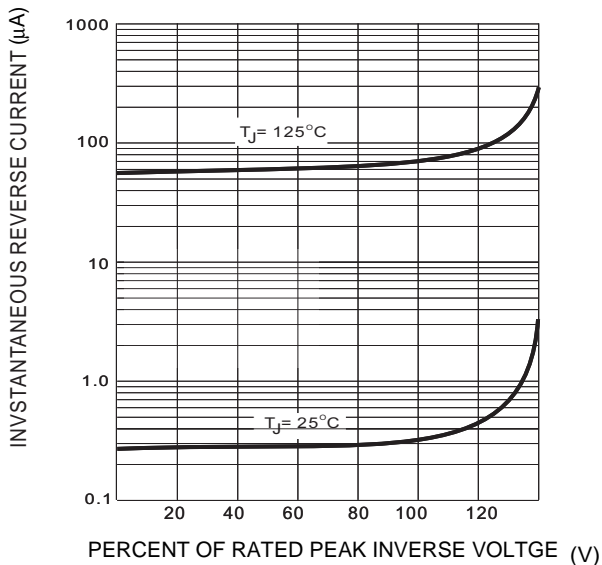
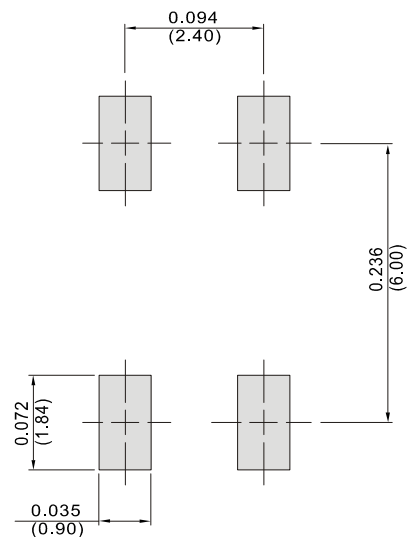


FIG.6 MOUNTING PAD LAYOUT



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