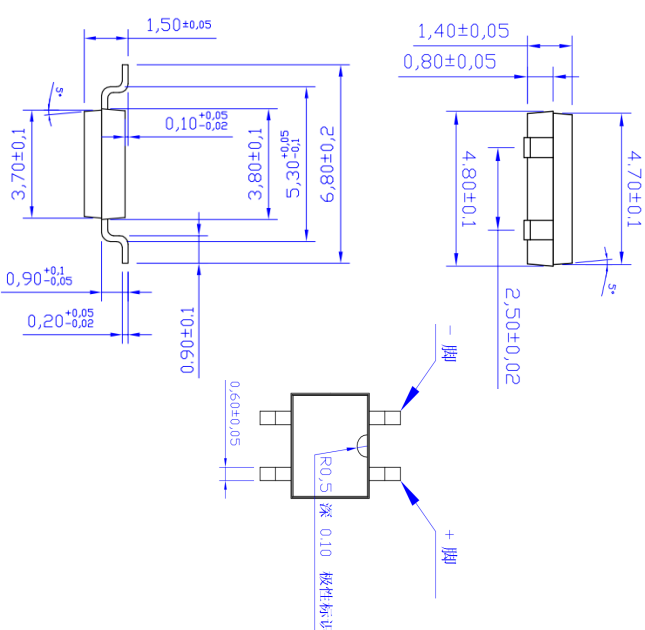


MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

MBF	REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 0.8/1.1 AMPERE
 <p style="text-align: center;">Dimensions in inches and (millimeters)</p>	<p>FEATURES</p> <ul style="list-style-type: none"> Surge overload rating: 30 amperes peak Ideal for printed circuit board Plastic material has Underwriters Laboratory Flammability Classification 94V-0 Low leakage Reliable low cost construction utilizing molded <p>MECHANICAL DATA</p> <p>Case: Molded plastic, MBF Epoxy: UL 94V-0 rate flame retardant Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: Any</p>

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.

		MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (see Fig. 1) on glass-epoxy P.C.B (Note 2) on aluminum substrate (Note 3)	$I_{(AV)}$				0.8				Amp
					1.1				
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}				30				Amp
					35				
Maximum Forward Voltage at 0.4A DC and 25 °C	V_F				1.0				Volts
Maximum Reverse Current at $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=125^\circ C$	I_R				5.0				uAmp
					100				
Typical Junction Capacitance (Note 1)	C_J				13				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$				60				°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$				16				°C/W
Operating and Storage Temperature Range	T_J, T_{stg}				-55 to +150				°C

NOTES:

- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads
- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

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Characteristic Curves ($T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT FOR

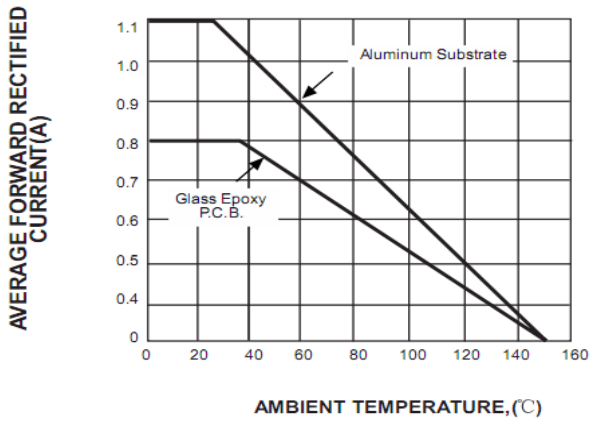


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Leg

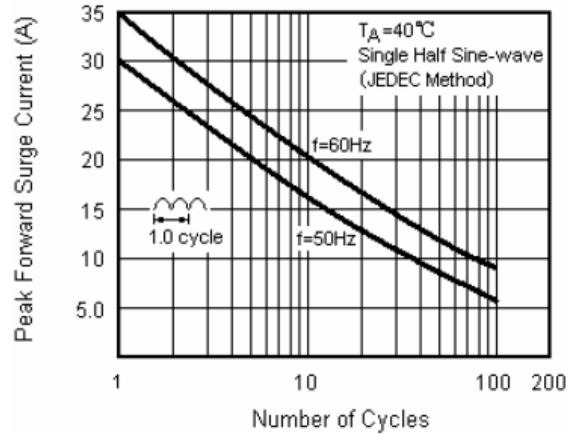


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

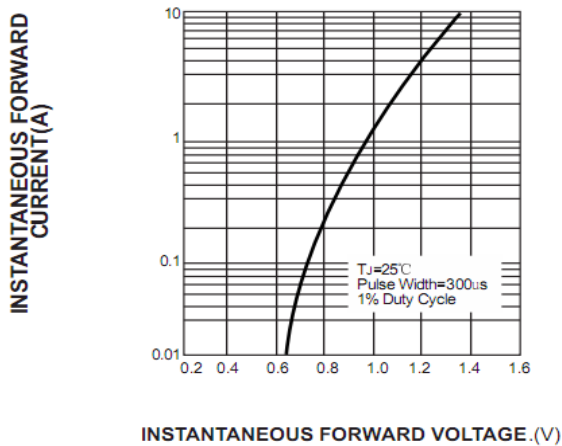


Fig.4 Typical Reverse Leakage Characteristics Per Leg

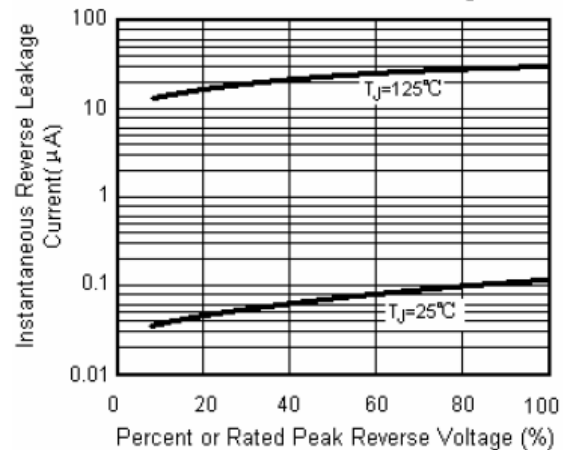


Fig.5 Typical Junction Capacitance Per Leg

