

MB05F THRU MB10F

MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

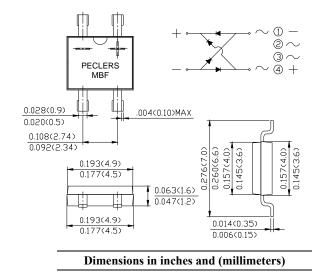
50 to 1000 VOLTS 0.5 AMPERE

FEATURES

- Surge overload rating: 30 amperes peak
- · Ideal for printed circuit board
- Plastic material has Underwriters Laboratory
- Flammability Classification 94V-0
- Low leakage
- \cdot Reliable low cost construction utilizing molded

MECHANICAL DATA

Case: Molded plastic, MBF Epoxy: UL 94V-O rate flame retardant Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: Any Weight: 0.00528ounce, 0.134gram



Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	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)	I _(AV)		0.5						
on aluminum substrate (Note 3)		0.8							
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM}	30							Атр
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	v	1.0							Volts
at 0.4A DC and 25 °C	V _F								
Maximum Reverse Current at T _A =25°C	т	5.0 500							uAmp
at Rated DC Blocking Voltage T _A =125℃	I _R								
Typical Junction Capacitance (Note 1)	CJ				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 , Tstg				-55 to +15	0			°C

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads

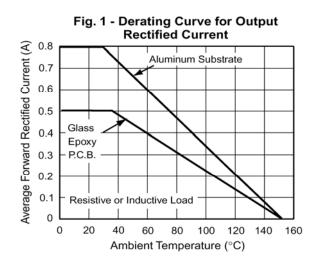
3- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

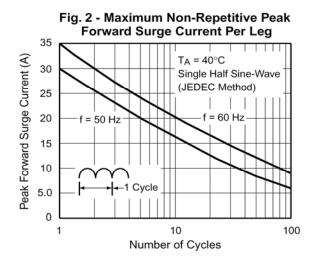
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RATINGS AND CHARACTERISTIC CURVES





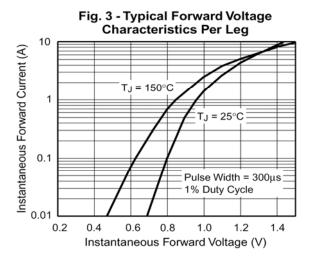
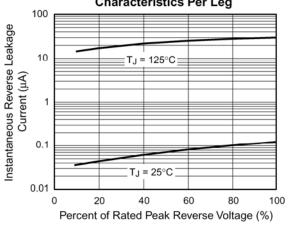
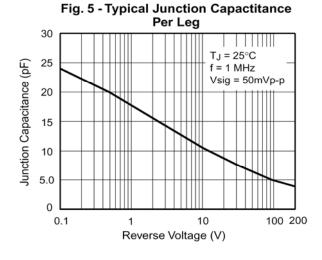


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg





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