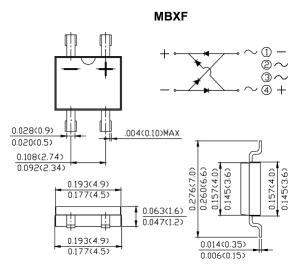
PECLERS[®]

MB05F THRU MB10F

MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE

REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 0.5 AMPERE



Dimensions in inches and (millimeters)

FEATURES

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

MECHANICAL DATA

Case: Molded plastic, MBXF 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	I _(AV) 0.5 0.8							Amp	
2) on aluminum substrate									
(Note 3)									
Peak Forward Surge									
Current, 8.3ms single half-	I _{FSM} 30							Amp	
sine-wave									
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	VF	1.0							Volts
at 0.4A DC and 25 ℃	V F								
Maximum Reverse Current at T _A =25℃	IR				5.0				uAmp
at Rated DC Blocking Voltage T _A =125°C	IR		500						
Typical Junction Capacitance (Note 1)	CJ				13				pF
Typical Thermal Resistance (Note 3)	R _{0JA}				60				°C/W
Typical Thermal Resistance (Note 2)	R _{ejl}				16				°C/W
Operating and Storage Temperature Range	T _J , Tstg				-55 to				Ĉ
					+150				

NOTES:

1- Measured at 1 MHz 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

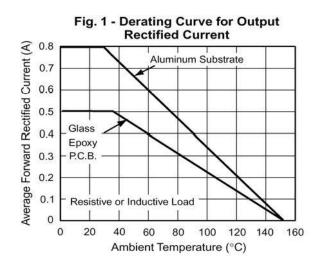
3- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

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RATINGS AND CHARACTERISTIC CURVES



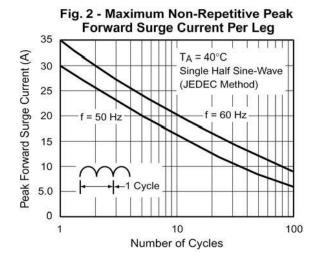


Fig. 3 - Typical Forward Voltage **Characteristics Per Leg** 10 Instantaneous Forward Current (A) TJ = 150°C 1 = 25°C 0.1 Pulse Width = 300µs 1% Duty Cycle 0.01 0.2 0.4 0.6 0.8 1.0 1.2 1.4 Instantaneous Forward Voltage (V)

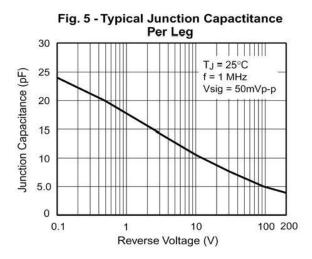


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

