MBXF SERIES

MINIATURE SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

产品规格确认

书

http://www.clt-hz.com

MB05F THRU MB10F

MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

REVERSE VOLTAGE: **50 to 1000 VOLTS**

FORWARD CURRENT: **0.8 AMPERE**

FEATURES

· Glass passivated chip junction

· Low forward voltage drop

· High surge overload rating of 30 Amperes peak

· Ideal for printed circuit board

· High temperature soldering guaranteed:
260°C for 10 seconds

MECHANICAL DATA

Case: Molded plastic, MD-F

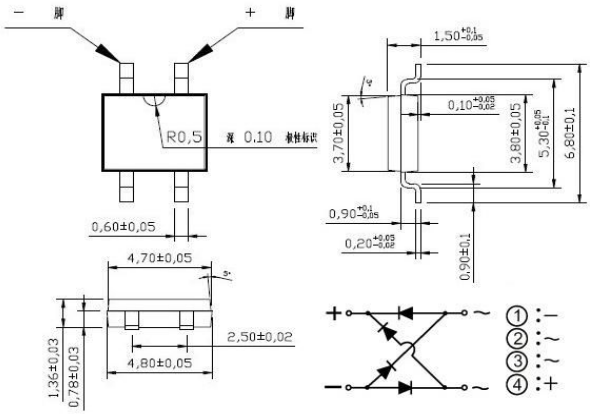
Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed

Mounting position: Any

Weight: 0.006ounce, 0.17gram

MD-F



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	*MB0 5F*	*MB1F*	*MB2F*	*MB4F*	*MB6F*	*MB8 F*	*MB10*	*F*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							**Amp**
on aluminum substrate (Note 3)		0.8							
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							**Amp**
Maximum Forward Voltage at 0.4A DC and 25℃	V_F	1.0							**Volts**
Maximum Reverse Current at T_A=25℃	I_R	5.0							**uAmp**
at Rated DC Blocking Voltage T_A=125℃		500							
Typical Junction Capacitance (Note 1)	C_J	13							**pF**
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	70							℃/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	20							℃/W
Operating and Storage Temperature Range	T_J，Tstg	-55 to +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. 1 - Derating Curve for Output Rectified Current

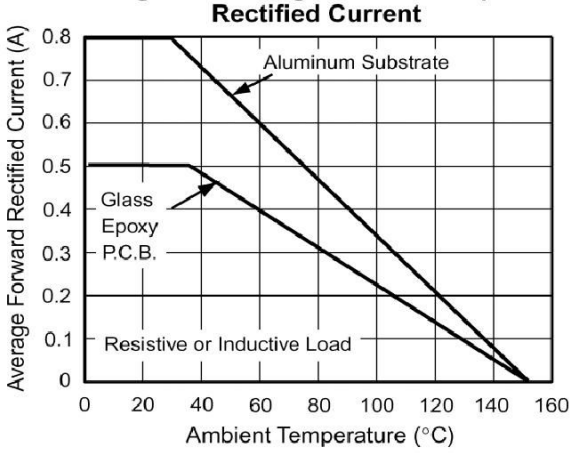

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

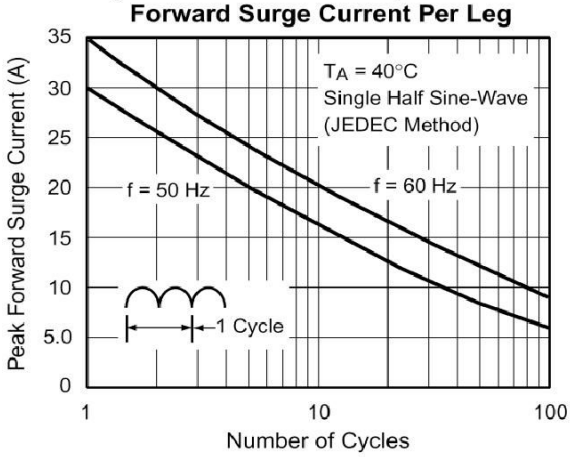

Fig. 3 - Typical Forward Voltage Characteristics Per Leg

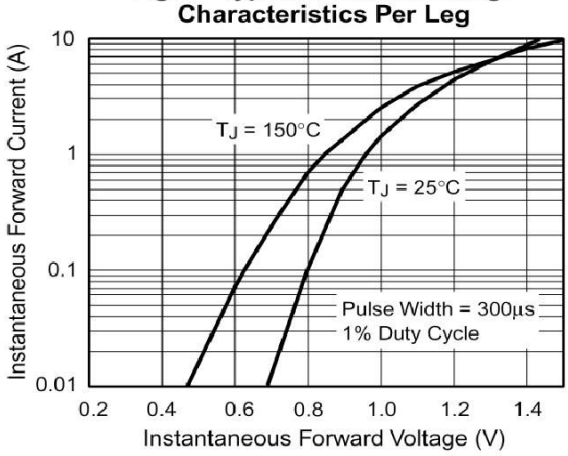

Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

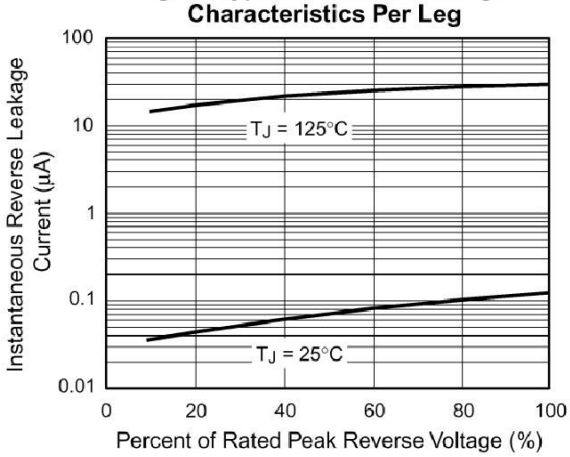

Fig. 5 - Typical Junction Capactitance Per Leg