

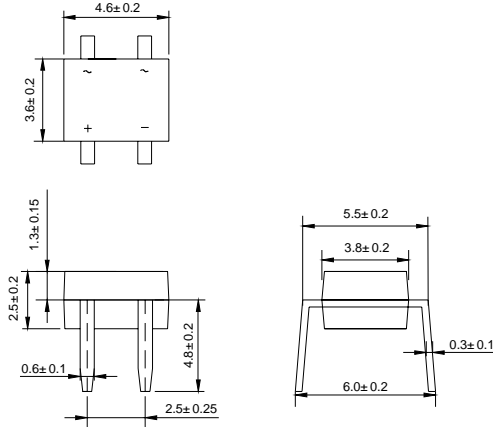


MBF SERIES

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 0.5/0.8 Ampere

MBF



Dimensions in inches and (millimeters)

FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260*/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ Leads solderable per MIL-STD-202, Method 208
- ◆ High surge current capability

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Mounting Position: Any

Weight: 0.04 ounce, 1.0 grams

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	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS	
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	VOLTS	
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	VOLTS	
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	VOLTS	
Maximum average forward rectified current at $T_A=30^*$	$I_{F(AV)}$							Amps
On glass-epoxy P.C.B. On aluminum substrate								
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}							Amps
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F							Volts
Maximum DC reverse current $T_A=25^*$ at rated DC blocking voltage $T_A=100^*$	I_R							μA μA
Typical junction capacitance per leg (Note3)	C_J							pF
Typical thermal resistance per leg	R^*_{JA}							*/W
Operating temperature range	T_J							*
storage temperature range	T_{STG}							*

NOTES: 1. On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

2. On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05x0.05"(1.3x1.3mm) solder pad

3. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

RATINGS AND CHARACTERISTIC CURVES MBF SERIES

