



MBF SERIES

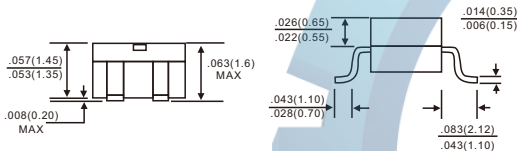
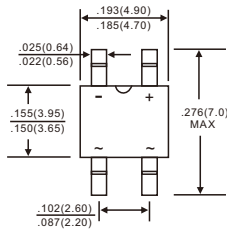
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

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

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs., (2.3kg)tension
- Small size, simple installation
- High surge current capability

MBF



Dimensions in inches and (millimeters)

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: 0.008 ounce, 0.22 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate 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°C On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2)	I _{F(AV)}			0.5 0.8			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}			30			Amps
Maximum instantaneous forward voltage drop per leg at 0.4A	V _F			1.0			Volts
Maximum DC reverse current T _A =25 °C at rated DC blocking voltage T _A =125 °C	I _R			5.0 500			uA uA
Typical junction capacitance per leg(Note3)	C _J			15			pF
Typical thermal resistance per leg	R _{θJA}			75			°C/W
Operating temperature range	T _J			-55 to +150			°C
Storage temperature range	T _{STG}			-55 to +150			°C

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.

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RATINGS AND CHARACTERISTIC CURVES MBF SERIES

