

MB12F~MB110F

Single Phase 1.0 Amp Schottky Barrier Bridge Rectifiers

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

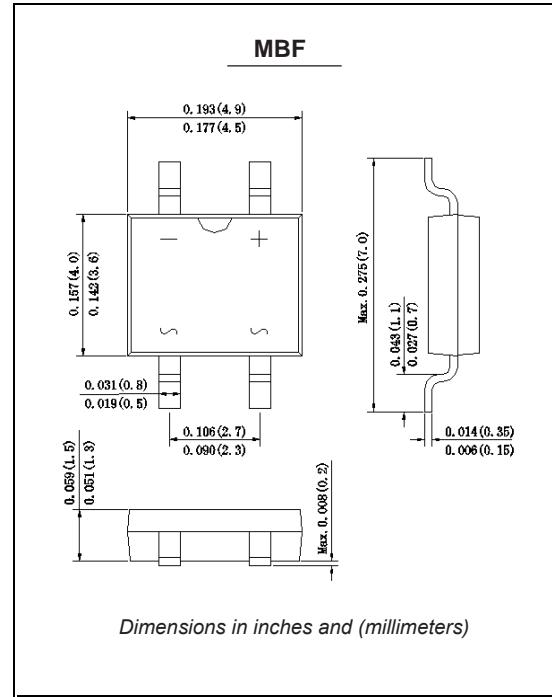
Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight : 0.004 ounce, 0.10 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	MB12F	MB14F	MB16F	MB18F	MB110F	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	VOLTS
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	VOLTS
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	VOLTS
Maximum average forward rectified current	I _(AV)			1.0			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}			30.0			Amps
Maximum instantaneous forward voltage at 1A	V _F	0.55	0.70	0.85			Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R		0.5 20				mA
Typical thermal resistance (Note 1)	R _{QJA}		75				°C/W
Operating junction and storage temperature range	T _{J,TSTG}		-50 to +155				°C

Note:1. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2×0.2"(5.0×5.0mm) copper pad areas

Ratings And Characteristic Curves

MB12F THRU MB110F

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

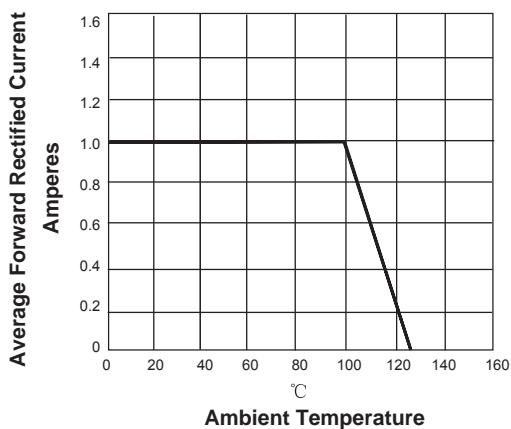


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

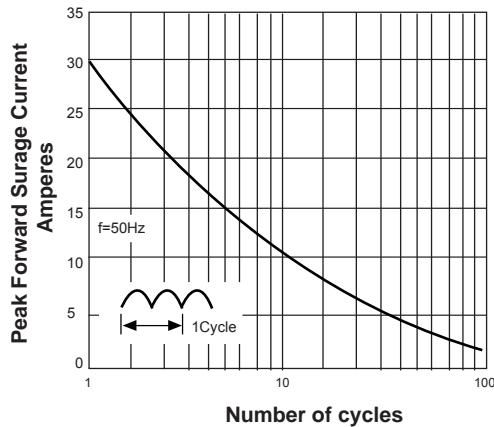


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

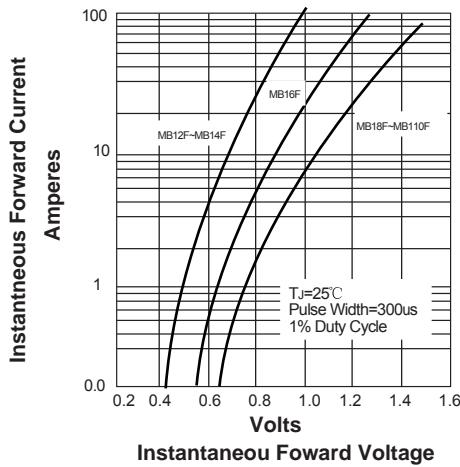


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

