



Features

- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: Symbol molded on body
- * Mounting position: Any
- * Weight: 0.12 grams

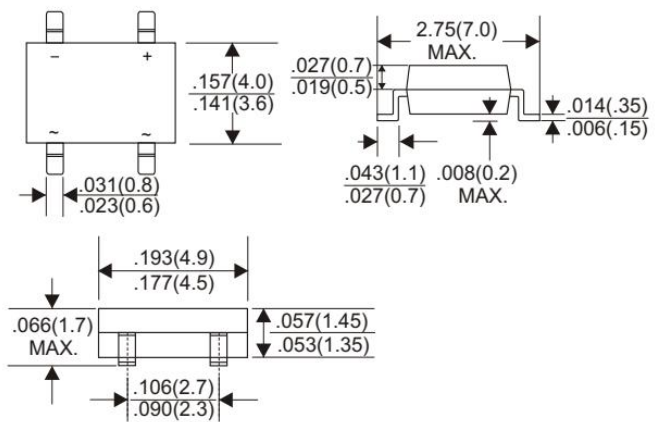
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

MBF



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Rating 25 C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

TYPE NUMBER	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=40 C(Note 1)	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	3.0							A
Maximum Forward Voltage Drop per Bridge Element at 0.5A D.C.	1.0							V _μ
Maximum DC Reverse Current Ta=25 C	5.0							A _μ
at Rated DC Blocking Voltage Ta=125 °C	500							A
Typical Thermal Resistance R _{JA} (Note 2)	75							C/W
Operating Temperature Range, T _J	-55 — +150							C
Storage Temperature Range, T _{STG}	55 — +150							C

NOTES: 1. Mounted on P.C. Board.

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (MB05F THRU MB10F)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

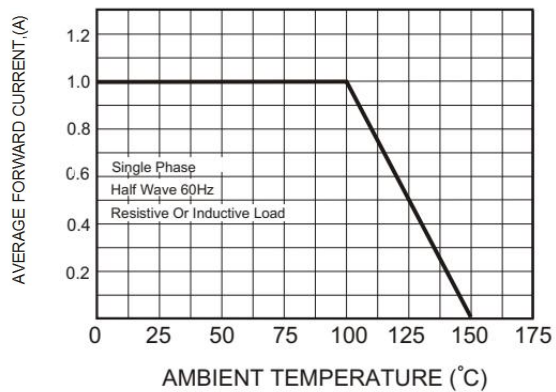


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

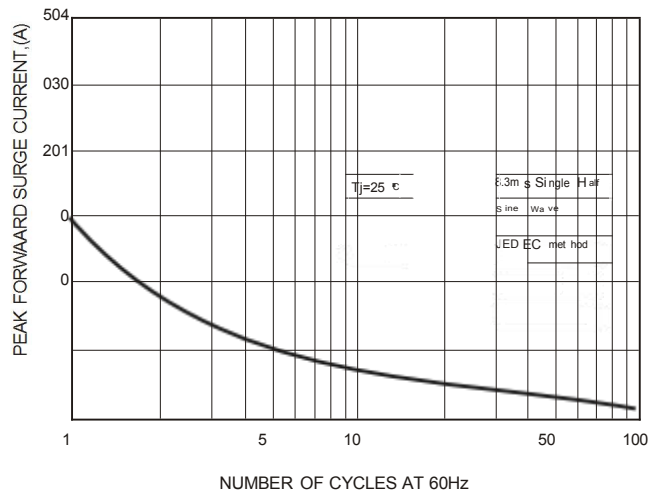


FIG.3-TYPICAL FORWARD CHARACTERISTICS

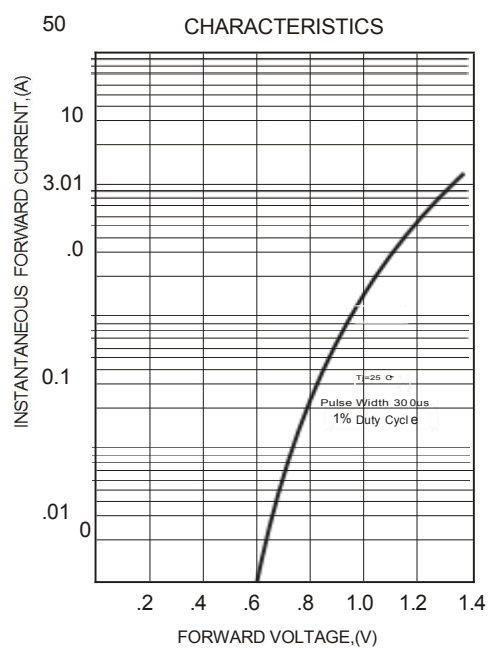


FIG.4-TYPICAL REVERSE CHARACTERISTICS

