



### 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

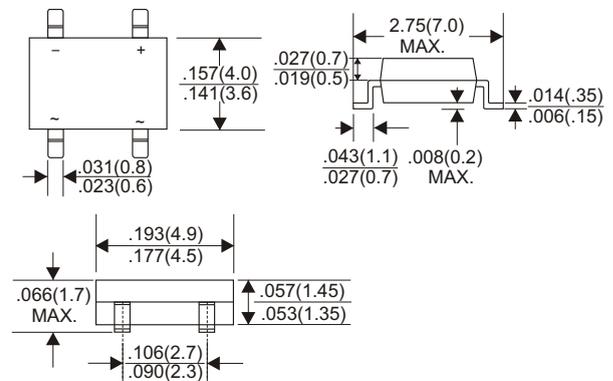
### VOLTAGE RANGE

1000 Volts

### CURRENT

0.8 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	MB6J	UNIT
Maximum Recurrent Peak Reverse Voltage	1000	
Maximum RMS Voltage	700	V
Maximum DC Blocking Voltage	1000	
Maximum Average Forward Rectified Current at Ta=40°C(Note 1)	0.8	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	3.0	A
I <sup>2</sup> t Rating for Fusing (1ms < t < 8.3ms)	3.7	A <sup>2</sup> S
Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C.	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0 500	μA μA
Typical Thermal Resistance R <sub>JA</sub> (Note 2)	75	°C/W
Operating Temperature Range, T <sub>J</sub>	-55 — +150	°C
Storage Temperature Range, T <sub>STG</sub>	-55 — +150	°C

NOTES: 1. Mounted on P.C. Board.  
 2. Thermal Resistance Junction to Ambient.

## RATING AND CHARACTERISTIC CURVES (MB6J)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

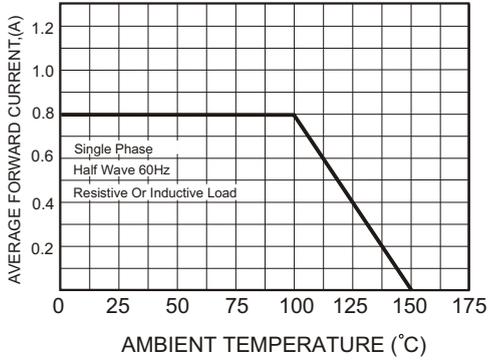


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

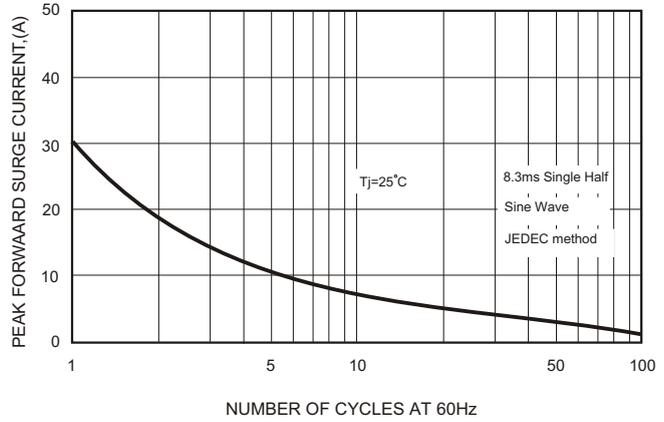


FIG.3-TYPICAL FORWARD CHARACTERISTICS

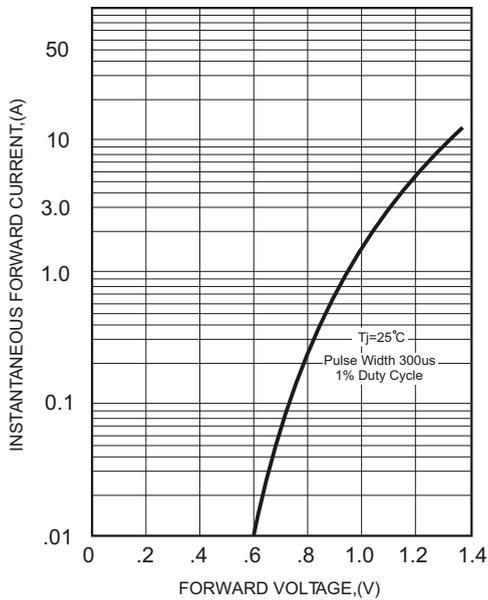


FIG.4-TYPICAL REVERSE CHARACTERISTICS

