



## 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

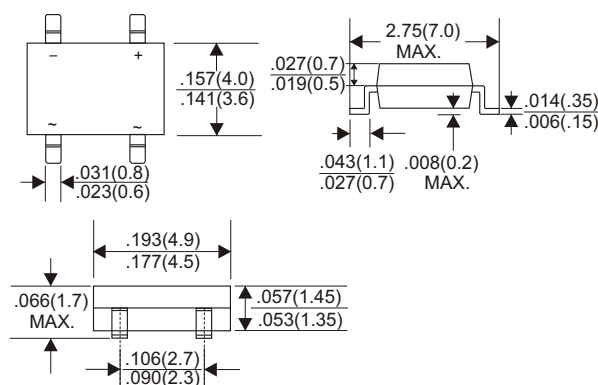
## VOLTAGE RANGE

1000 Volts

## CURRENT

0.8 Ampere

## MBF



## 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<br>at Ta=40°C(Note 1)                                       | 0.8        | A                |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>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<br>Ta=25°C                                                                 | 5.0        | μA               |
| at Rated DC Blocking Voltage<br>Ta=125°C                                                              | 500        | 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

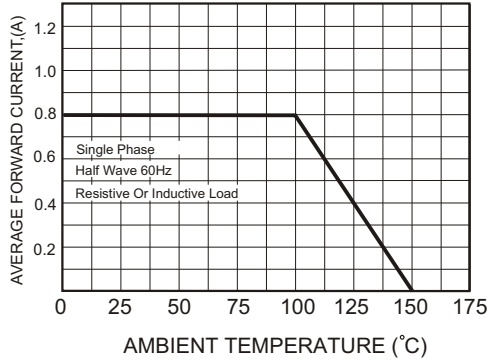


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

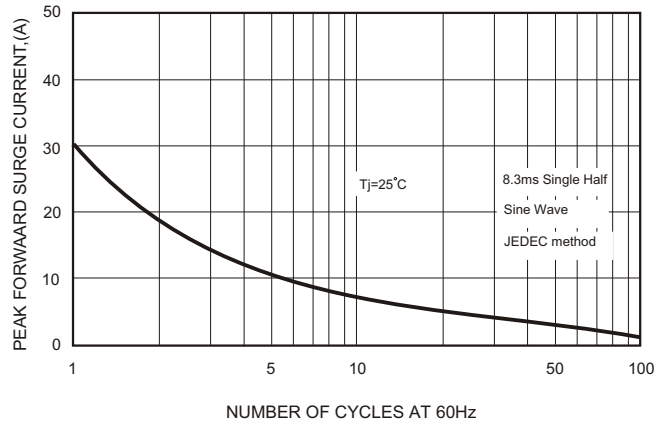


FIG.3-TYPICAL FORWARD CHARACTERISTICS

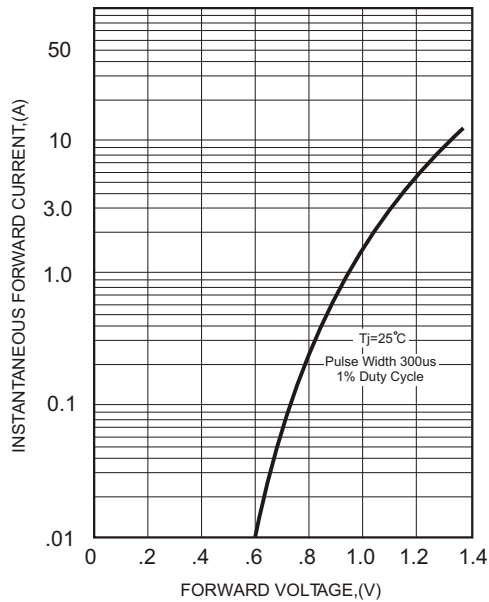


FIG.4-TYPICAL REVERSE CHARACTERISTICS

