



### 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

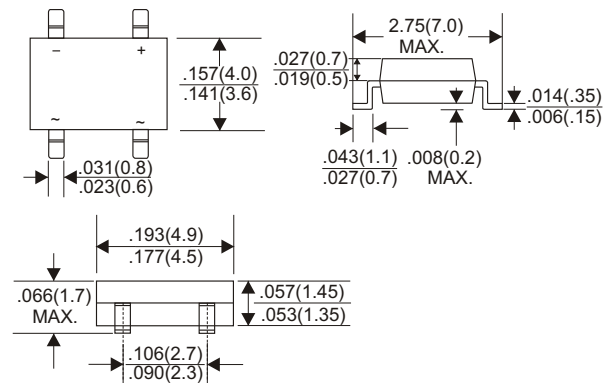
### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

0.6 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   | 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<br>at Ta=40°C (Note 1)                                      |       |      |      |      |      |      |       | 0.6        | A    |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) |       |      |      |      |      |      |       | 25         | A    |
| Maximum Forward Voltage Drop per Bridge Element at 0.3A 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 JA (Note 2)  |       |      |      |      |      |      |       | 75         | °C/W |
| Operating Temperature Range, Tj   |       |      |      |      |      |      |       | -55 — +150 | °C   |
| Storage Temperature Range, Tstg   |       |      |      |      |      |      |       | -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

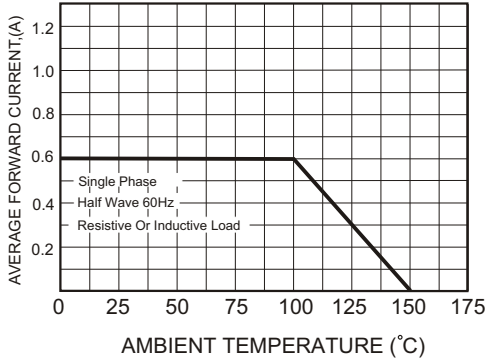


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

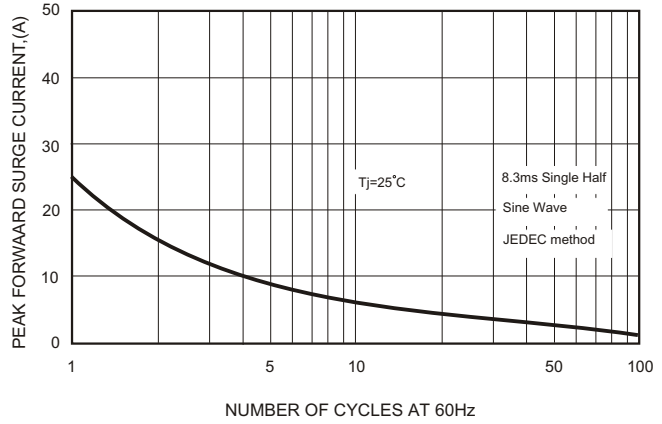


FIG.3-TYPICAL FORWARD CHARACTERISTICS

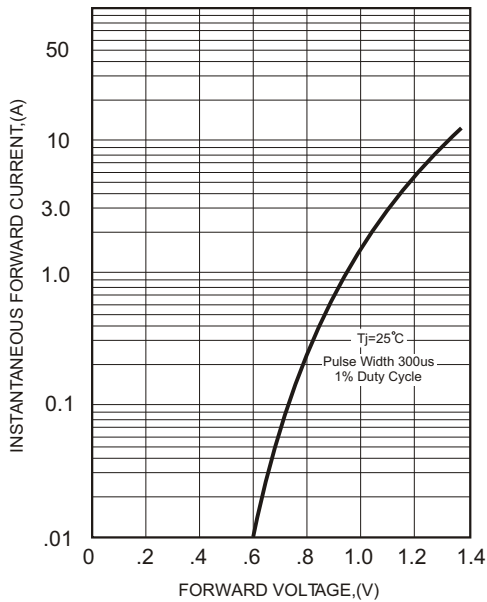
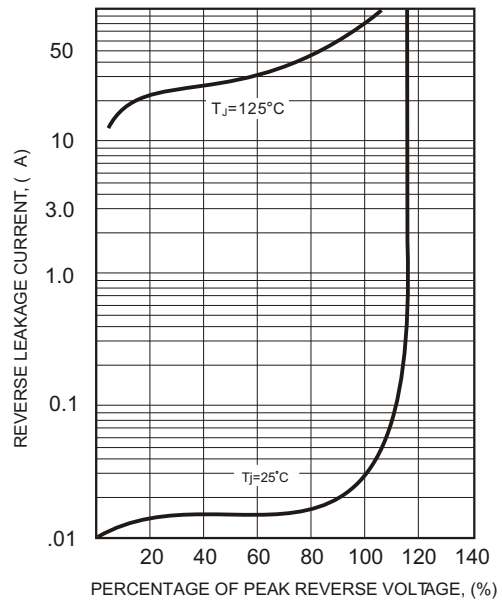


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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