




# MB4F-08~MB10F-08

## SINGE PHASE 0.8AMP GLASS PASSIVATED BRIDGE RECTIFIERS

**VOLTAGE** 400~1000 Volt **CURRENT** 0.8 Amper

 Recognized File #E111753

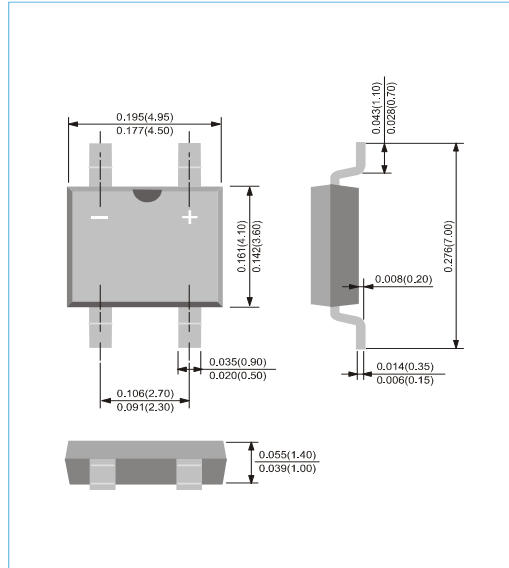
### FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- High surge current capability
- Small size simple intallation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case : MBF, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : As Marked on case
- Approx weight : 0.00289 ounces, 0.0818 grams

**MBF** Unit : inch(mm)



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

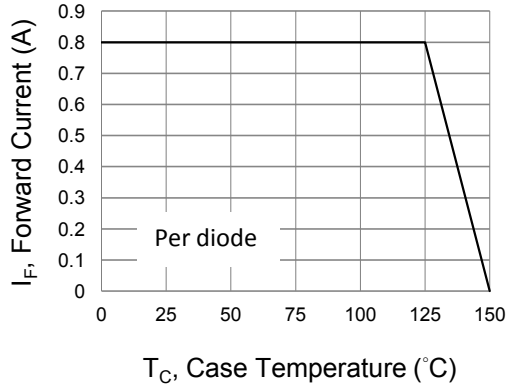
| PARAMETER   | SYMBOL                             | MB4F-08     | MB6F-08 | MB8F-08 | MB10F-08 | UNIT             |
|---|------------------------------------|-------------|---------|---------|----------|------------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$                          | 400         | 600     | 800     | 1000     | V                |
| Maximum RMS Voltage   | $V_{RMS}$                          | 280         | 420     | 560     | 700      | V                |
| Maximum DC Blocking Voltage   | $V_{DC}$                           | 400         | 600     | 800     | 1000     | V                |
| Maximum Average Rectified Forward Current per diode   | $I_{F(AV)}$                        | 0.8         |         |         |          | A                |
| Peak Forward Surge Current : 8.3ms single half-sine-wave superimposed on rated load per diode | $I_{FSM}$                          | 30          |         |         |          | A                |
| $I^2t$ Rating for fusing ( $t < 8.3ms$ )  | $I^2t$                             | 3.735       |         |         |          | A <sup>2</sup> S |
| Maximum Forward Voltage at 0.8A   | $V_F$                              | 1           |         |         |          | V                |
| Maximum DC Reverse Current at $T_J = 25^\circ C$  | $I_R$                              | 5           |         |         |          | $\mu A$          |
| Typical Junction Capacitance ( $V_R = 4V, f = 1MHz$ )   | $C_J$                              | 15          |         |         |          | pF               |
| Typical Thermal Resistance per diode<br>(Note 1)<br>(Note 2)                                  | $R_{\theta JC}$<br>$R_{\theta JA}$ | 25<br>138   |         |         |          | $^\circ C/W$     |
| Operating Junction Temperature Range  | $T_J$                              | -55 to +150 |         |         |          | $^\circ C$       |
| Storage Temperature Range   | $T_{STG}$                          | -55 to +150 |         |         |          | $^\circ C$       |

Note:1.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area

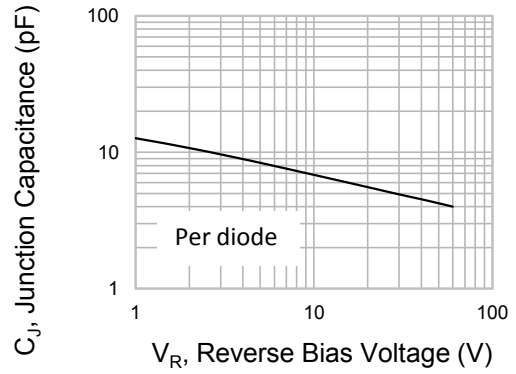
2.Mounted on a FR4 PCB, single-sided copper, mini pad.



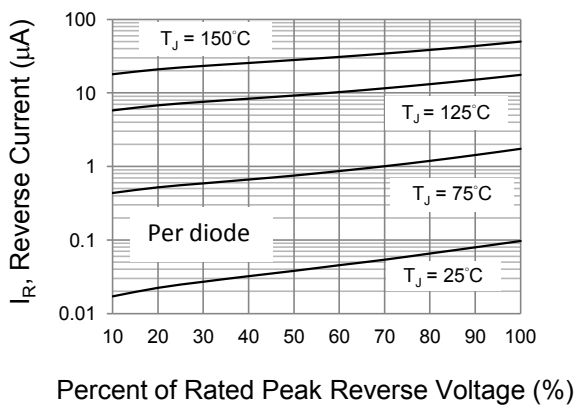
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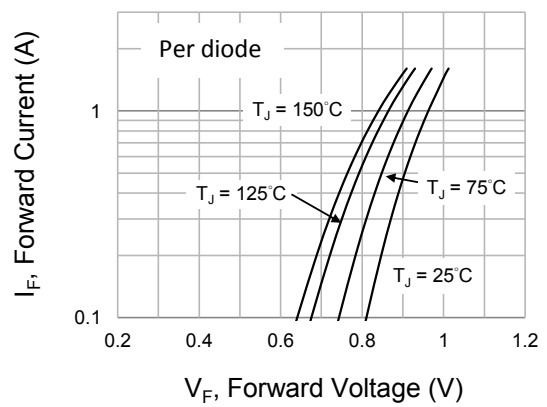
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

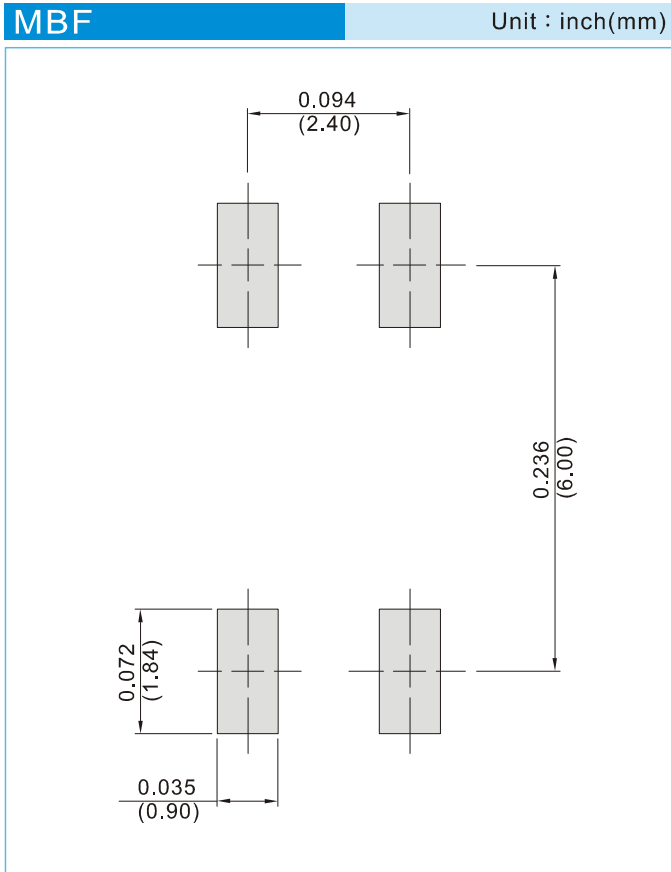


**Fig.4 Typical Forward Characteristics**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R - 5K per 13" plastic Reel



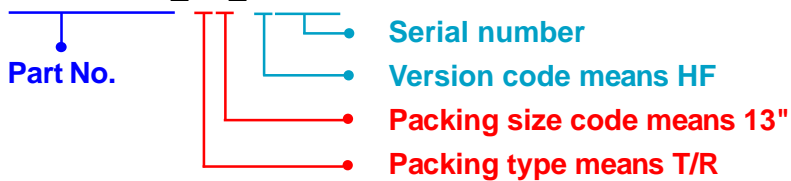
# MB4F-08~MB10F-08

## PART NO PACKING CODE VERSION

| Part No Packing Code | Package Type | Packing Type      | Marking | Version      |
|----------------------|--------------|-------------------|---------|--------------|
| MB4F-08_R2_00001     | MBF          | 5K pcs / 13" reel | MB4F    | Halogen free |
| MB6F-08_R2_00001     | MBF          | 5K pcs / 13" reel | MB6F    | Halogen free |
| MB8F-08_R2_00001     | MBF          | 5K pcs / 13" reel | MB8F    | Halogen free |
| MB10F-08_R2_00001    | MBF          | 5K pcs / 13" reel | MB10F   | Halogen free |

For example :

**RB500V-40\_R2\_00001**



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | A                    | N/A                              | 0                    | HF                        | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS                      | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                           |                      |                                       |
| Tube Packing (T/P)                   | T                    | 26mm                             | X                    |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | S                    | 52mm                             | Y                    |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP (PBCU)   | U                    |                           |                      |                                       |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD) | D                    |                           |                      |                                       |



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