



# MB05M THRU MB10M

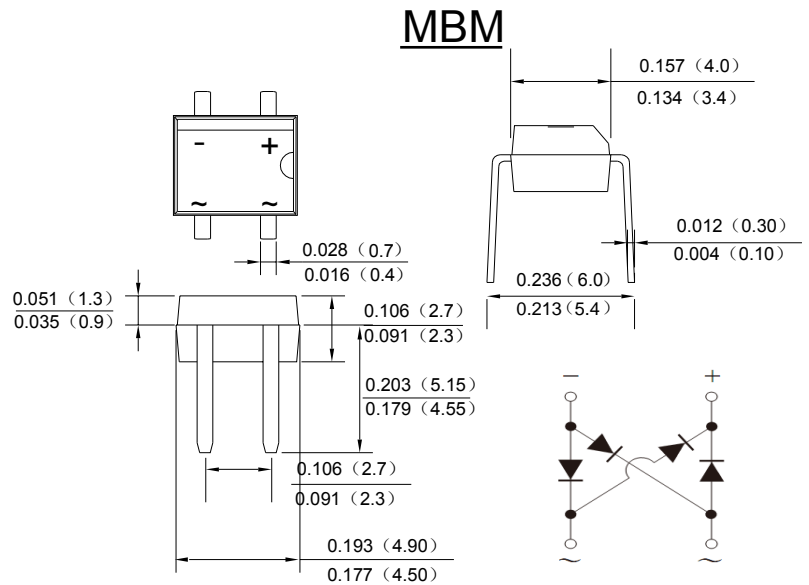
## SINGLE PHASE 0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-30A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

### Mechanical Data

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number



dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

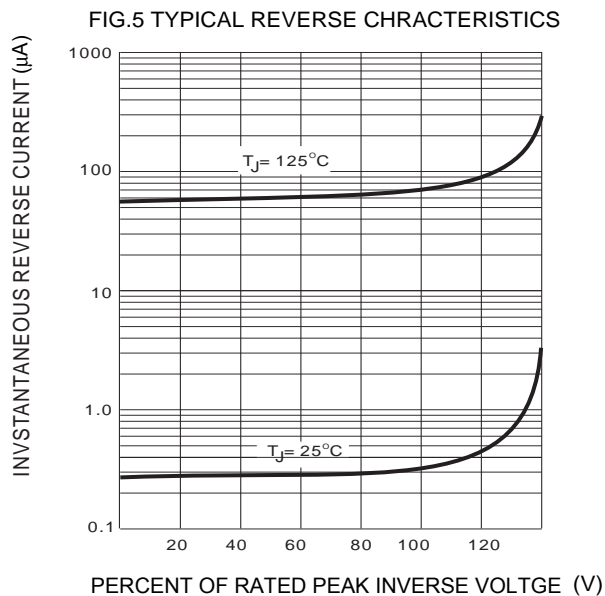
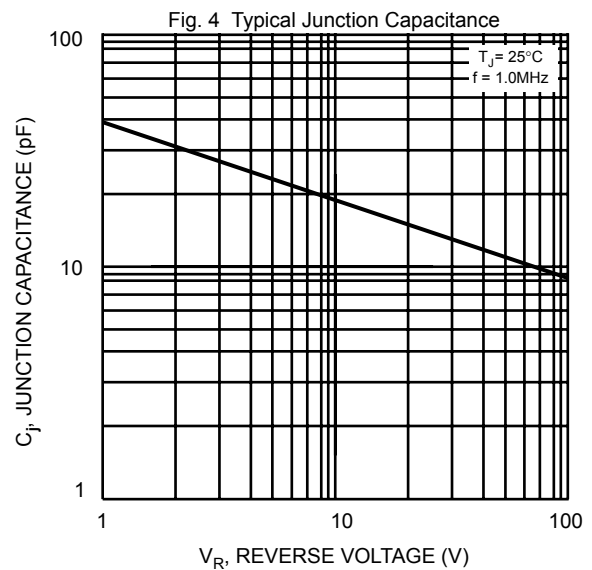
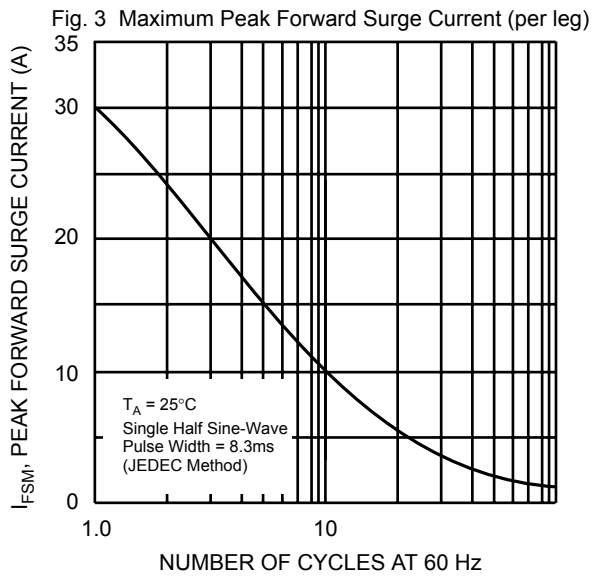
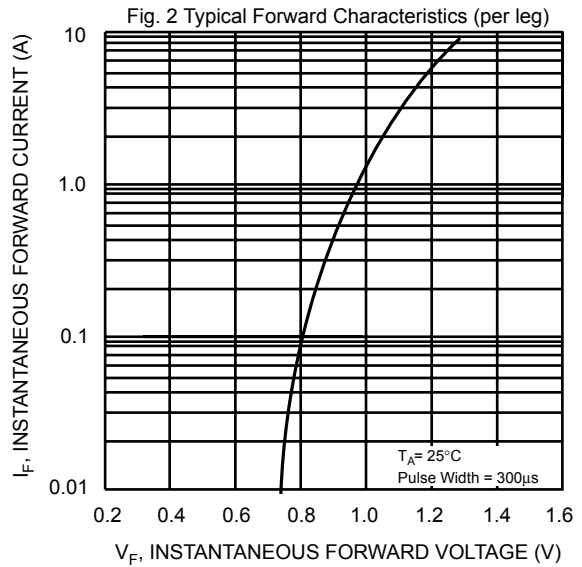
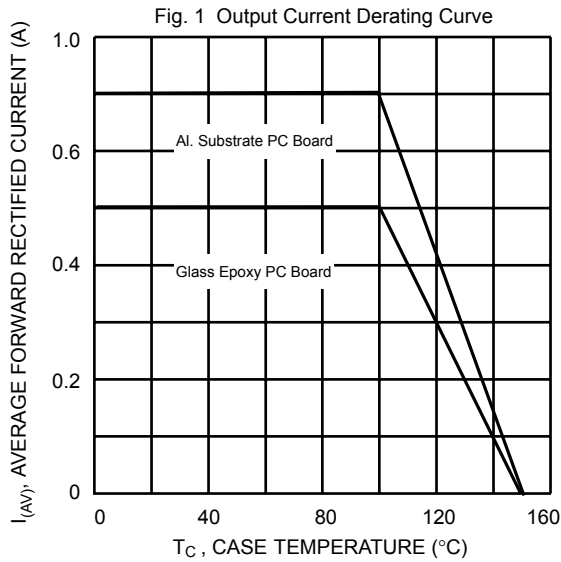
Rating at 25°C ambient temperature unless otherwise specified.  
 Single Phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

| TYPE NUMBER   | SYMBOL          | MB05M | MB1M | MB2M | MB4M       | MB6M | MB8M | MB10M | UNITS        |
|---|-----------------|-------|------|------|------------|------|------|-------|--------------|
| Peak Repetitive Reverse Voltage   | $V_{RRM}$       |       |      |      |            |      |      |       |              |
| Working Peak Reverse Voltage  | $V_{RWM}$       | 50    | 100  | 200  | 400        | 600  | 800  | 1000  | V            |
| DC Blocking Voltage   | $V_{DC}$        |       |      |      |            |      |      |       |              |
| RMS Reverse Voltage   | $V_{RMS}$       | 35    | 70   | 140  | 280        | 420  | 560  | 700   | V            |
| Average Rectified Output Current (Note 1)@ $T_c=100^\circ C$<br>(Note 2)@ $T_c=100^\circ C$                           | $I_F(AV)$       |       |      |      | 0.5<br>0.8 |      |      |       | A            |
| Non-Repetitive Peak Forward Surge Current 8.3ms<br>Single half sine-wave superimposed on rated load<br>(JEDEC Method) | $I_{FSM}$       |       |      |      | 30         |      |      |       | A            |
| $I^2t$ Rating for Fusing ( $t < 8.3ms$ )  | $I^2t$          |       |      |      | 3.735      |      |      |       | $A^2s$       |
| Forward Voltage per element @ $I_F=0.5A$  | $V_{FM}$        |       |      |      | 0.95       |      |      |       | V            |
| Forward Voltage per element @ $I_F=0.8A$  |                 |       |      |      | 1.0        |      |      |       |              |
| Peak Reverse Current @ $T_A=25^\circ C$<br>At Rated DC Blocking Voltage @ $T_A=125^\circ C$                           | $I_R$           |       |      |      | 5.0<br>200 |      |      |       | $\mu A$      |
| Typical Junction Capacitance per leg (Note 3)   | $C_J$           |       |      |      | 13         |      |      |       | pF           |
| Typical Thermal Resistance per leg  | $R_{\theta JA}$ |       |      |      | 60         |      |      |       | $^\circ C/W$ |
|   | $R_{\theta JL}$ |       |      |      | 16         |      |      |       |              |
| Operating and Storage Temperature Range   | $T_J, T_{STG}$  |       |      |      | -55to+150  |      |      |       | $^\circ C$   |

- Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
 2. Mounted on aluminum substrate PC board with 1.3mm<sup>2</sup> solder pad.  
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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