

**0.8A GLASS PASSIVATED BRIDGE RECTIFIER**

**Reverse Voltage - 100 to 1000 V**

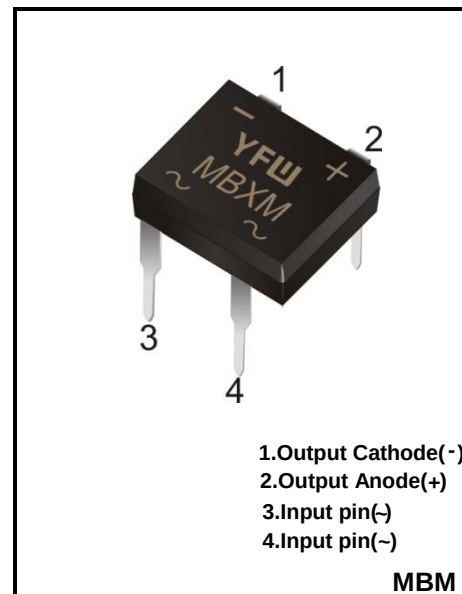
**Forward Current – 0.8A**

**FEATURES**

- ◆High current capability
- ◆Low forward voltage drop
- ◆Glass Passivated Chip Junction
- ◆Low power loss, high efficiency
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- ◆Case: MBM
- ◆Terminals: Solderable per MIL-STD-202, Method 208
- ◆Approx. Weight: 0.22g / 0.008oz



**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

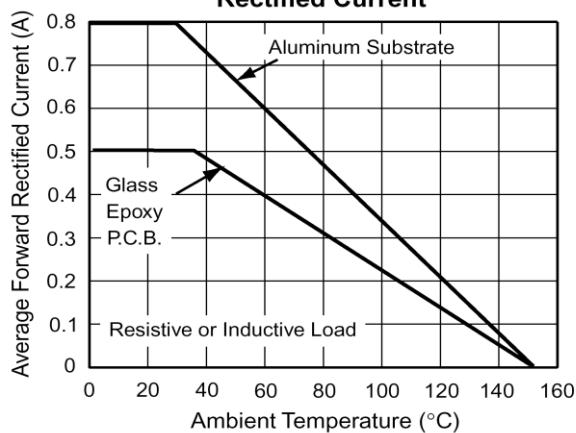
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter                                                                                             | Symbols                         | MB1M       | MB2M | MB4M | MB6M | MB8M | MB10M | Units   |
|-------------------------------------------------------------------------------------------------------|---------------------------------|------------|------|------|------|------|-------|---------|
| Maximum Repetitive Peak Reverse Voltage                                                               | $V_{RRM}$                       | 100        | 200  | 400  | 600  | 800  | 1000  | V       |
| Maximum RMS voltage                                                                                   | $V_{RMS}$                       | 70         | 140  | 280  | 420  | 560  | 700   | V       |
| Maximum DC Blocking Voltage                                                                           | $V_{DC}$                        | 100        | 200  | 400  | 600  | 800  | 1000  | V       |
| Average Rectified Output Current                                                                      | $I_{(AV)}$                      | 0.5/0.8    |      |      |      |      |       | A       |
| Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)      | $I_{FSM}$                       | 30         |      |      |      |      |       | A       |
| Forward Voltage per element @ $I_F = 0.5A$ and 25°C                                                   | $V_F$                           | 1.0        |      |      |      |      |       | V       |
| Maximum DC Reverse Current @ $T_A = 25^\circ C$<br>at Rated DC Blocking Voltage @ $T_A = 125^\circ C$ | $I_R$                           | 5<br>500   |      |      |      |      |       | $\mu A$ |
| Typical Junction Capacitance (Note1)                                                                  | $C_j$                           | 13         |      |      |      |      |       | pF      |
| Typical Thermal Resistance (Note2)                                                                    | $R_{\theta JA} / R_{\theta JC}$ | 70/20      |      |      |      |      |       | °C/W    |
| Operating and Storage Temperature Range                                                               | $T_j, T_{stg}$                  | -55 ~ +150 |      |      |      |      |       | °C      |

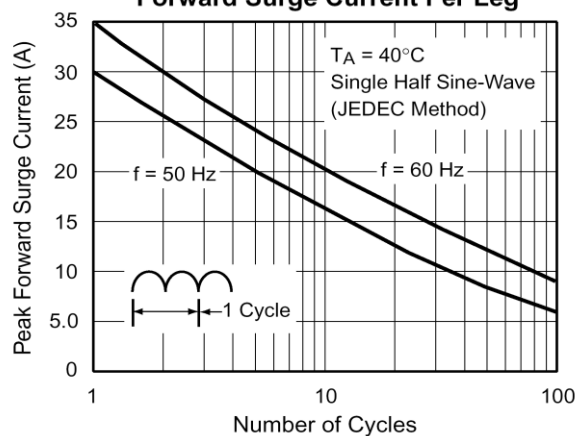
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Mounted on glass epoxy PCB board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

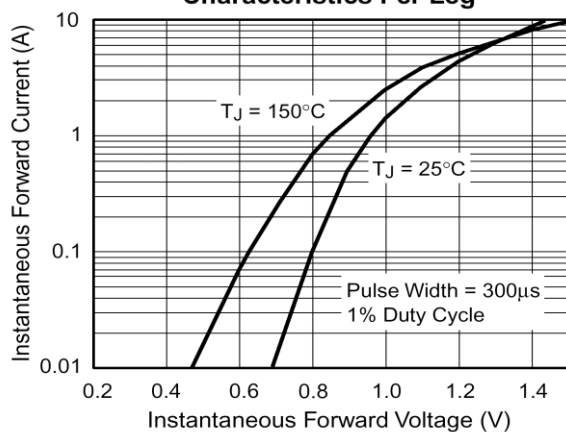
**Fig. 1 - Derating Curve for Output Rectified Current**



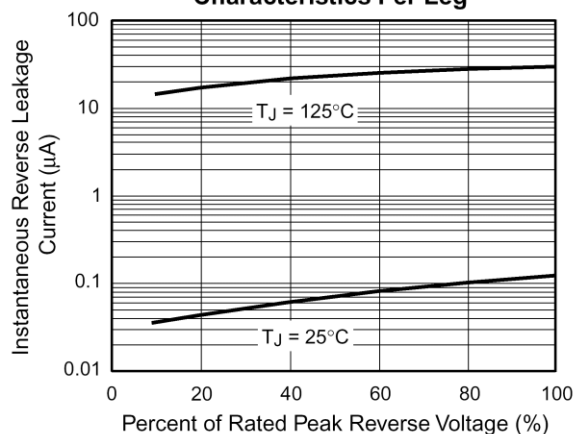
**Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



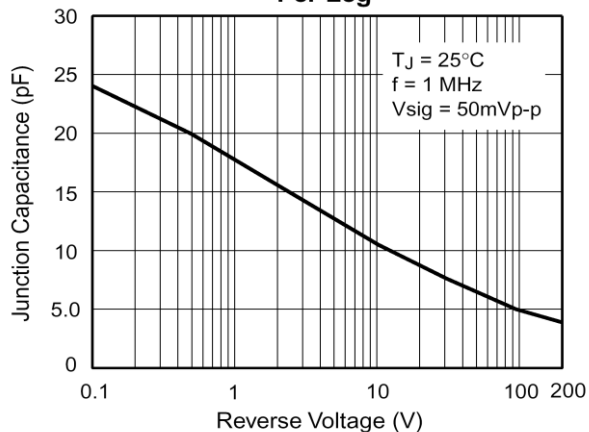
**Fig. 3 - Typical Forward Voltage Characteristics Per Leg**



**Fig. 4 - Typical Reverse Leakage Characteristics Per Leg**



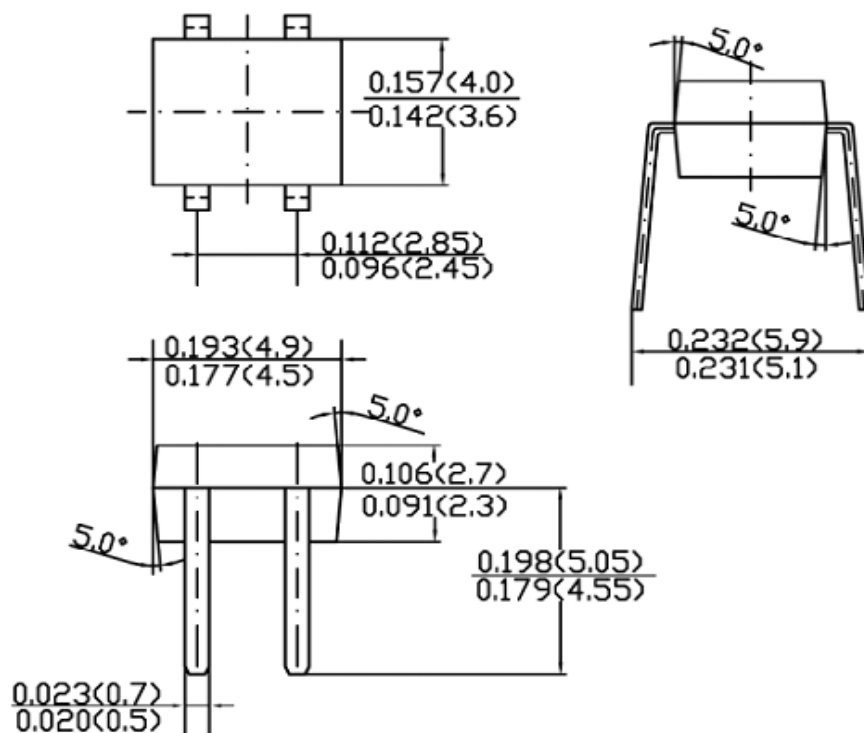
**Fig. 5 - Typical Junction Capacitance Per Leg**



## Package Outline

## MBM

Plastic surface mounted package; 4 leads



## Summary of Packing Options

| Package | Packing Description | Packing Quantity | Industry Standard |
|---------|---------------------|------------------|-------------------|
| MBM     | Tube                | 50               | EIA-481-1         |