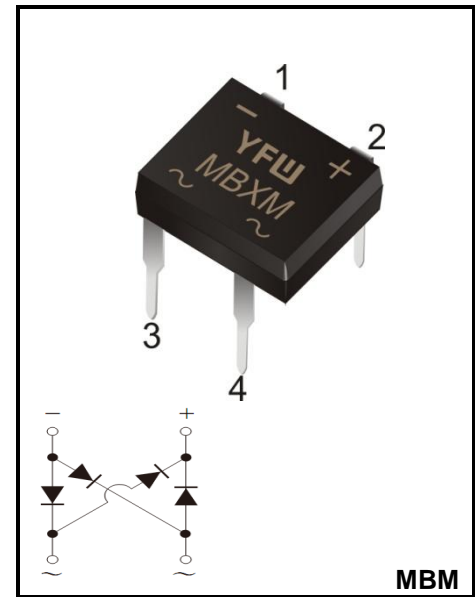


**0.8A GLASS PASSIVATED BRIDGE RECTIFIER**
**Reverse Voltage - 100 to 1000 V**
**Forward Current – 0.8A**
**FEATURES**

- ◆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 %.

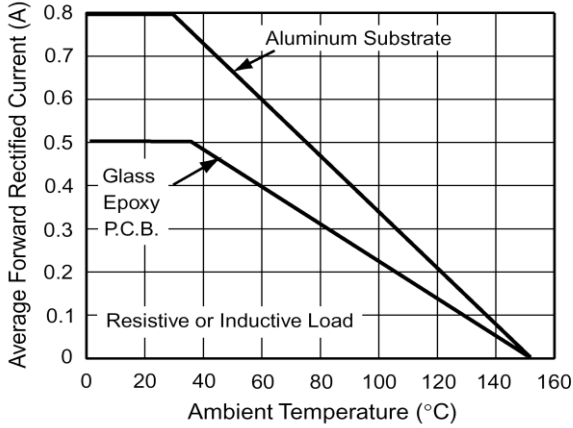
Parameter	Symbols	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current	$I_{(AV)}$	0.5/0.8						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 @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	$I_R$	5 500						$\mu A$
Typical Junction Capacitance <sup>(Note1)</sup>	$C_j$	13						pF
Typical Thermal Resistance <sup>(Note2)</sup>	$R_{\theta JA} R_{\theta JC}$	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

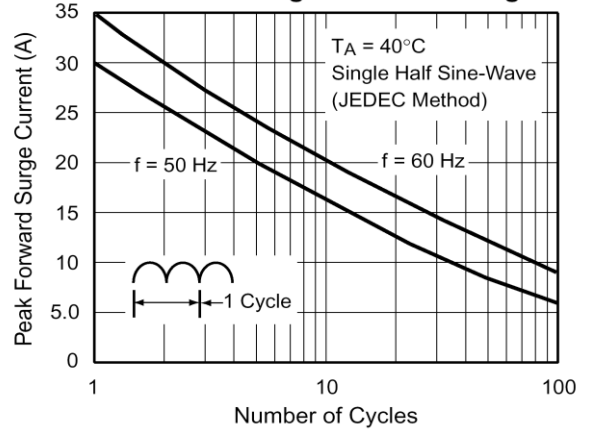
(2) Mounted on glass epoxy PCB board with 4x1.5"x1.5" (3.81x3.81 cm) copper pad.

**Ratings And Characteristic Curves**

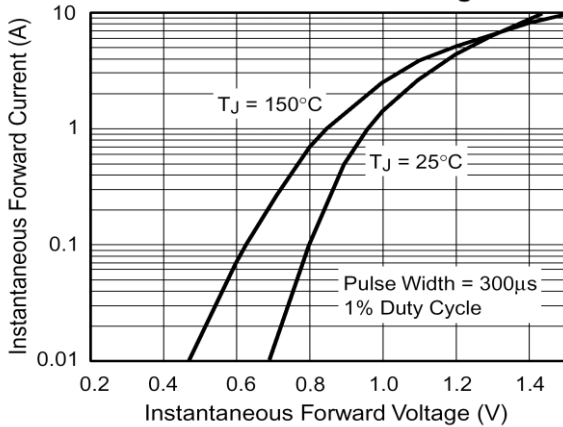
**Fig. 1 - Derating Curve for Output Rectified Current**



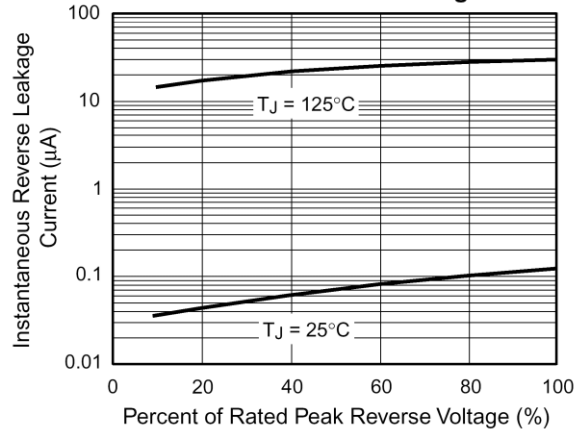
**Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



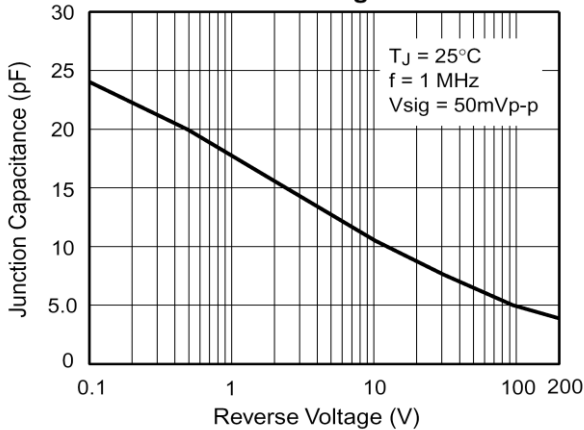
**Fig. 3 - Typical Forward Voltage Characteristics Per Leg**



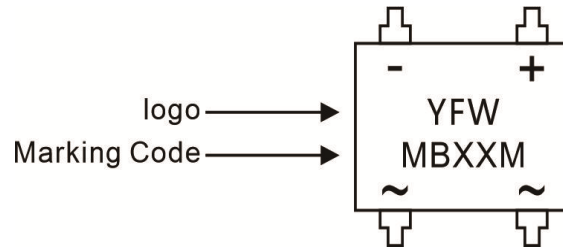
**Fig. 4 - Typical Reverse Leakage Characteristics Per Leg**



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



**Marking Diagram**



**Ordering information**

Package	Packing Description	Packing Quantity
MBM	50PCS/Tube	2500PCS/Box 10000PCS/Carton

**Package Dimensions**

**MBM**

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	4.95	5.21	0.195	0.205
B	2.41	2.67	0.095	0.105
C	3.65	4.10	0.144	0.161
D	4.55	4.83	0.179	0.190
E	0.99	1.24	0.039	0.049
F	2.30	2.70	0.090	0.106
G	0.43	0.74	0.017	0.029
H	3.35	5.16	0.132	0.203
K	0.15	0.41	0.006	0.016
L	3.48	3.73	0.137	0.147
M	10°C	15°C	10°C	15°C
N	0.51	0.71	0.020	0.028

The drawing shows the package from three perspectives: a top view, a side view, and a detail of the notch in the case. Dimensions A through N are labeled on the drawing. Dimension A is the width of the case, B is the height of the case, C is the width of the pins, D is the total height, E is the height of the top surface, F is the height of the case body, G is the width of the pins, H is the height of the pins, K is the width of the pins, L is the width of the case body, M is the temperature range, and N is the width of the notch in the case.

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