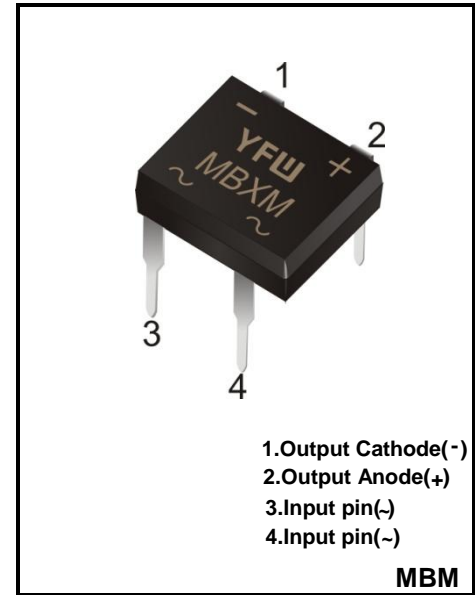


0.8A GLASS PASSIVATED BRIDGE RECTIFIER
Reverse Voltage - 100 to 1000 V
Forward Current – 0.8A
FEATURES

- ◆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						μA
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 4x1.5"x1.5" (3.81x3.81 cm) copper pad.

Fig. 1 - Derating Curve for Output Rectified Current

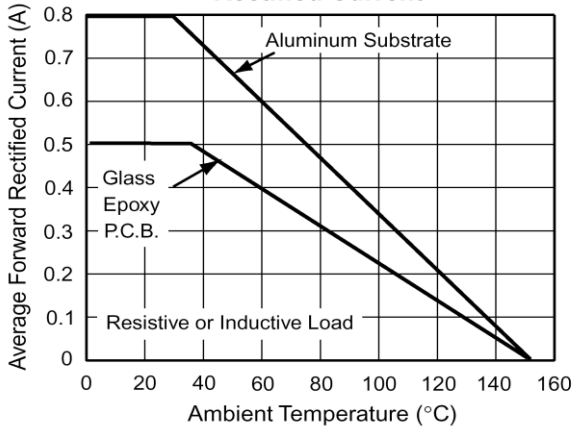


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

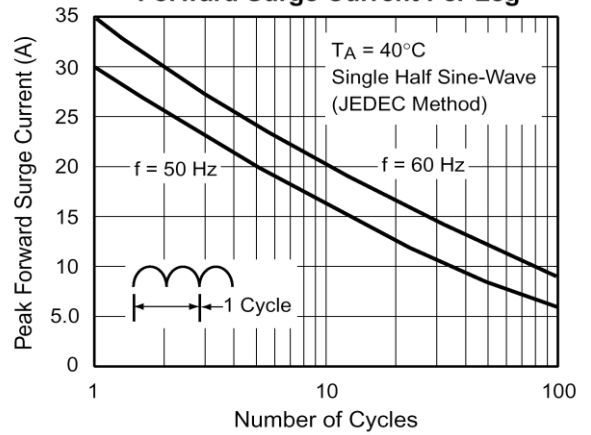


Fig. 3 - Typical Forward Voltage Characteristics Per Leg

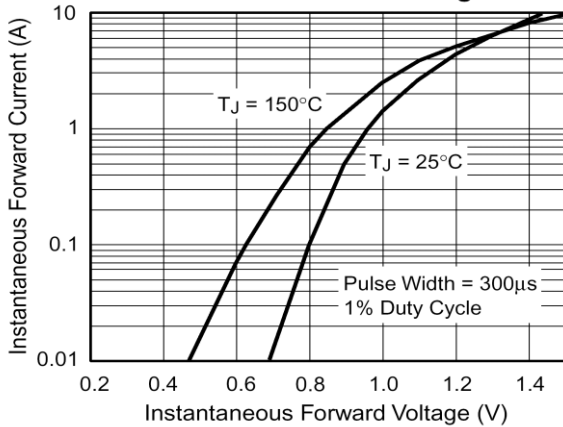


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

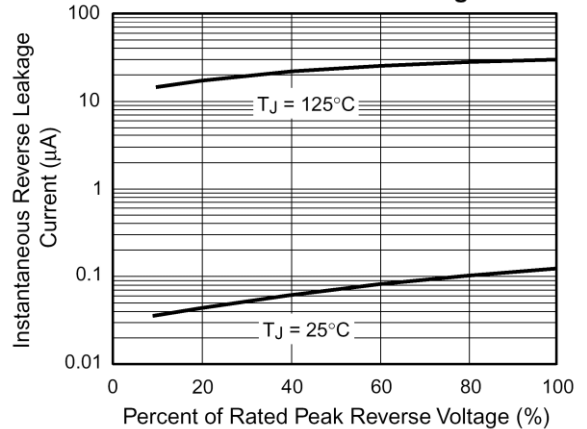
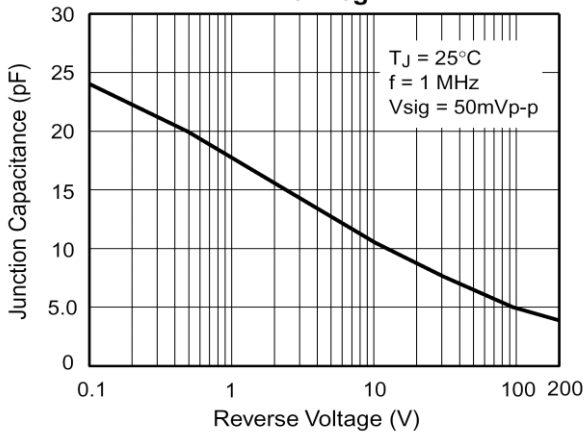


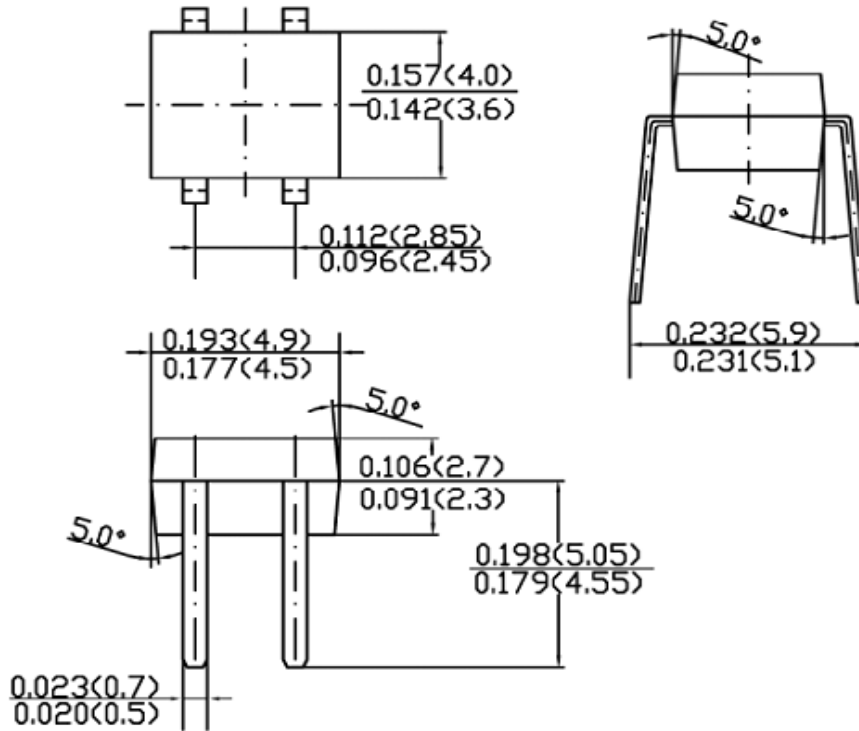
Fig. 5 - Typical Junction Capacitance Per Leg



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