

0.8A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

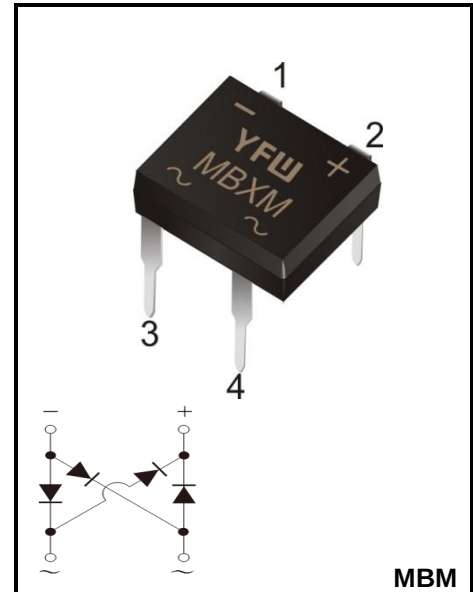
Forward Current – 0.8A

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 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Ratings And Characteristic Curves

Fig.1 Average Rectified Output Current Derating Curve

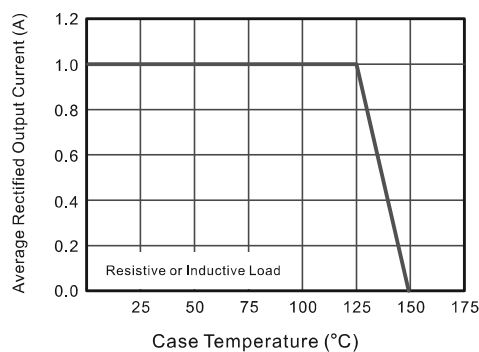


Fig.2 Typical Reverse Characteristics

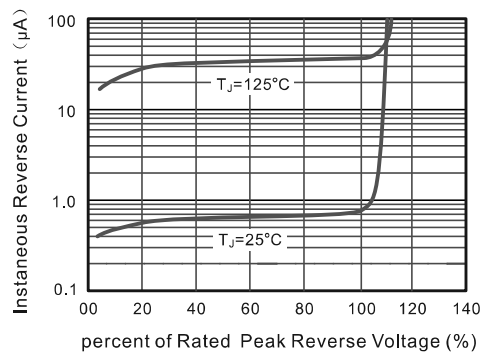


Fig.3 Typical Instaneous Forward Characteristics

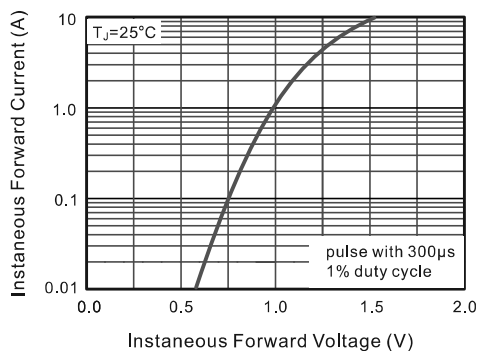


Fig.4 Typical Junction Capacitance

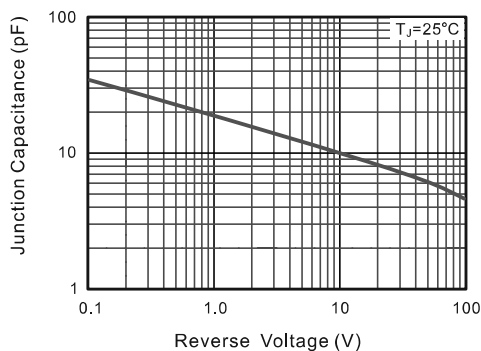
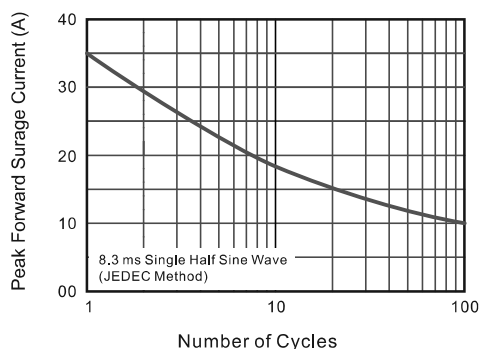
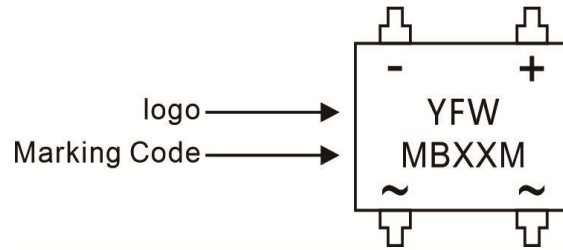


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
MBM	50PCS/Tube	5000PCS/Box 50000PCS/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℃	15℃	10℃	15℃
N	0.51	0.71	0.020	0.028

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