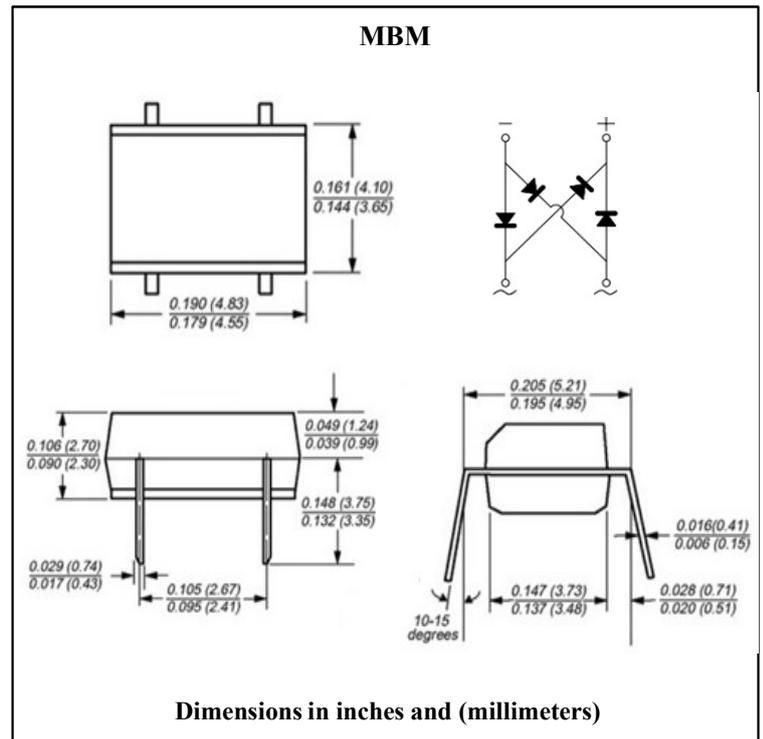
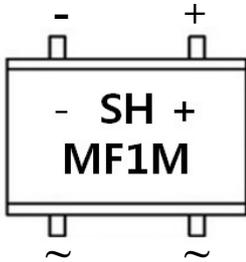


Miniature Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 100 to 1000 Volts Forward Current 1.0 Ampere
Features

- Glass passivated junction chip
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Low forward voltage drop
- Designed for surface mount application
- Plastic material used carries underwriters laboratory classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

Mechanical Data

- Case : MBM, Molded plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : As marked on case
- Weight : 0.22 gram (Approx.)

Marking

Maximum Ratings & Electrical Characteristics (If not specified Ta =25°C)

Parameter	Symbol	MF1M	MF2M	MF4M	MF6M	MF8M	MF10M	Unit	Remark
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	
Maximum Average Forward Rectified Current	I_O	1.0						A	$T_c=125^\circ C$
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	40						A	
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0						uA	$T_a=25^\circ C$
		100						uA	$T_a=125^\circ C$
Typical Junction Capacitance	C_J	13						pF	Note 1
Typical Thermal Resistance	$R_{th(j-a)}$	85						$^\circ C/W$	Note 2
	$R_{th(j-a)}$	70						$^\circ C/W$	Note 3
	$R_{th(j-l)}$	20						$^\circ C/W$	Note 2
Operation Junction and Storage Temperature Range	T_{STG}	-55 to +150						$^\circ C$	

Note 1. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 2. On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pad

Note 3. On aluminum substrate P.C.B. with an area of 0.8 x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad



Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

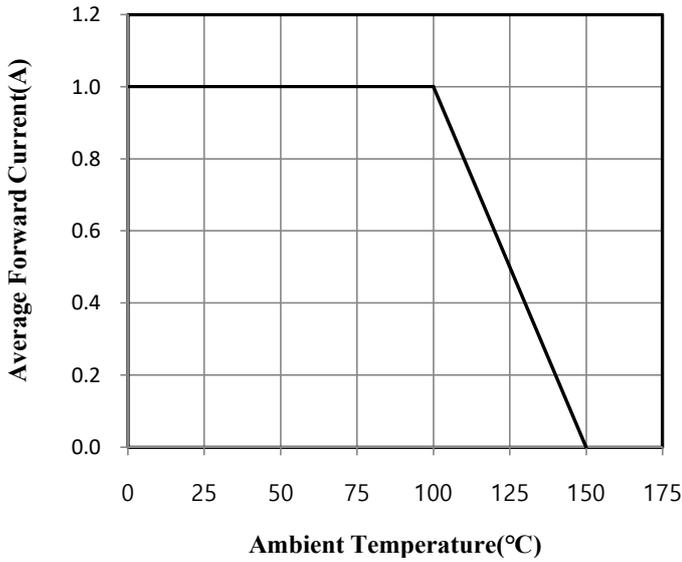


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

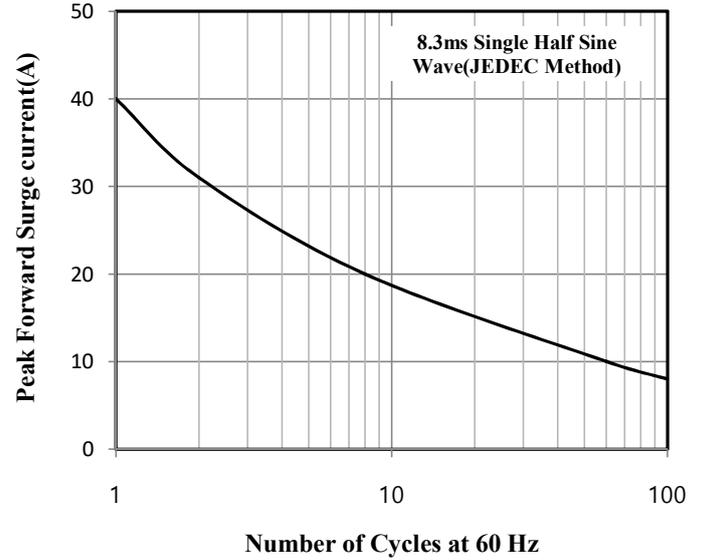


Fig.3 Typical Instantaneous Forward Characteristics

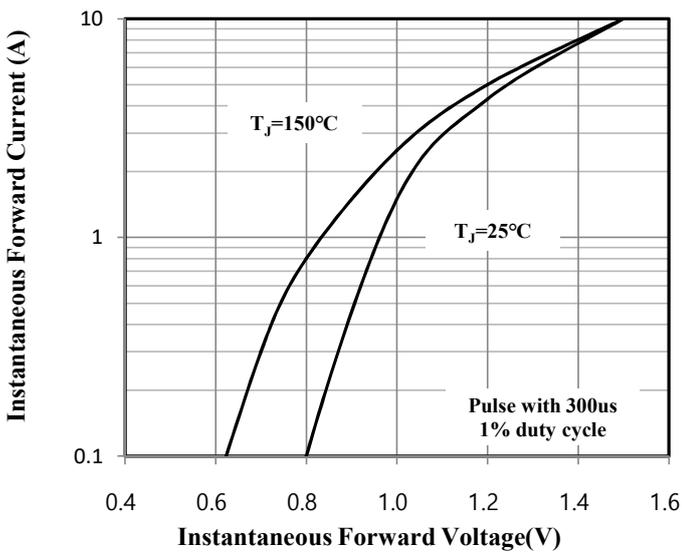


Fig.4 Typical Junction Capacitance

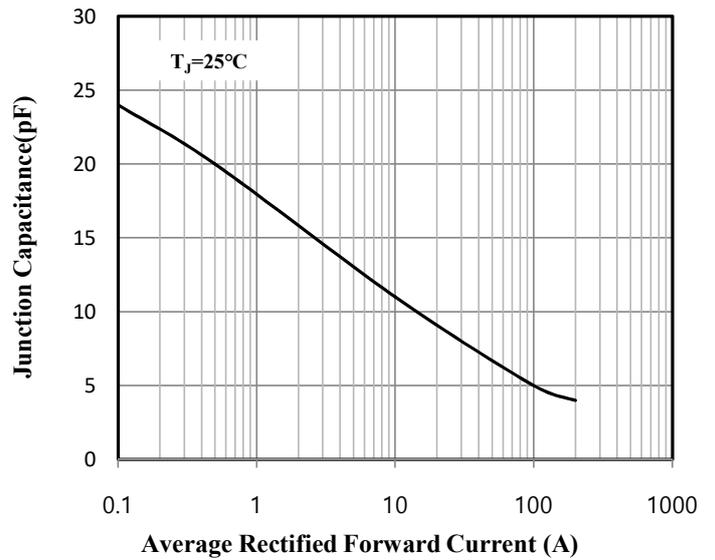


Fig.5 Typical Reverse Characteristics

