

MB151M thru MB157M

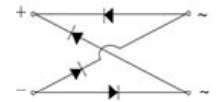
Glass Passivated Bridge Rectifiers
 Reverse Voltage 50 to 1000V Forward Current 1.5A

Features

- Glass passivated bridge rectifiers
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low forward voltage drop
- Low leakage current



Package: MBM



Schematic Diagram

Mechanical Data

- Case: Molded plastic body over passivated junctions
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Mounting position: any
- Weight: 0.078oz., 0.22g

Maximum Ratings and Electrical Characteristics

($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	MB151M	MB152M	MB153M	MB154M	MB155M	MB156M	MB157M	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current (see Fig.1) on glass-epoxy P.C.B	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load, JEDEC method)	I_{FSM}	50							A
Rating for Fusig ($t<8.3\text{ms}$)	I^2t	10							A^2sec
Maximum Instantaneous Forward Voltage Drop per Leg at 1.5A	V_F	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Leg	I_R	5 100							μA
Typical Thermal Resistance per Leg	$R_{\theta JA}$	85							$^{\circ}\text{C}/\text{W}$
	$R_{\theta JL}$	25							
Typical Junction Capacitance at 4.0V, 1.0MHz	C_j	25							pF
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^{\circ}\text{C}$

Notes: 1. On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

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Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

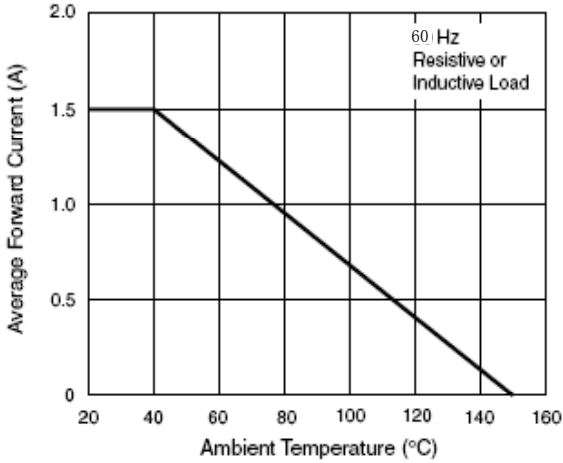


Figure 1. Forward Current Derating Curve Per Diode

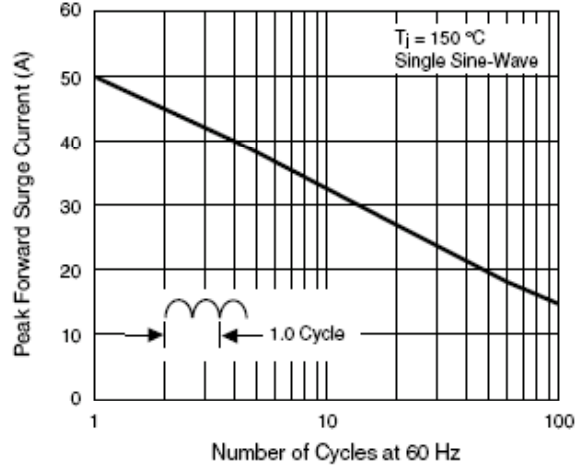


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

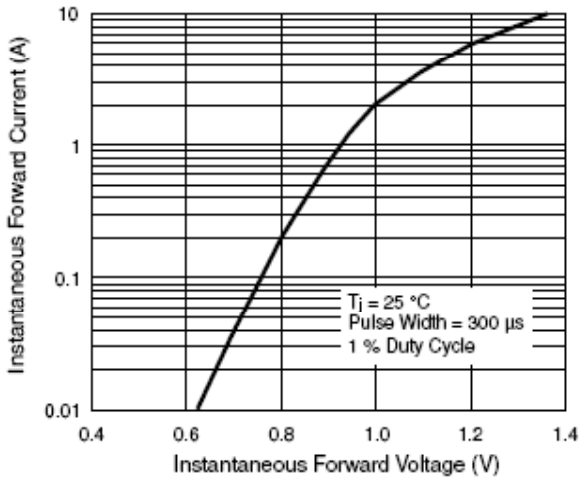


Figure 3. Typical Forward Characteristics Per Diode

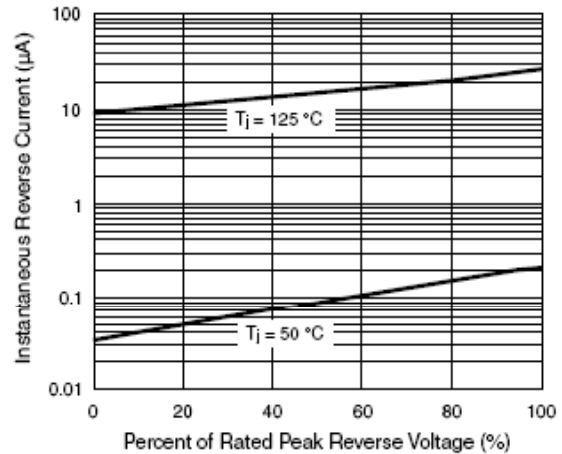


Figure 4. Typical Reverse Leakage Characteristics Per Diode

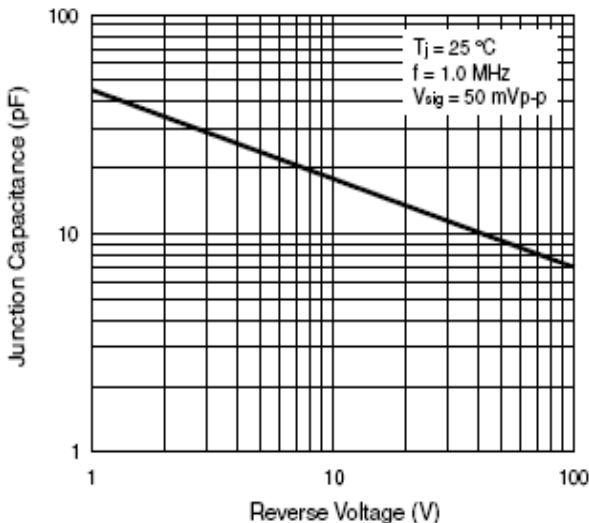


Figure 5. Typical Junction Capacitance Per Diode

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Package Outline Dimensions

in inches (millimeters)

MBM

