



THE DATASHEET OF MB8S

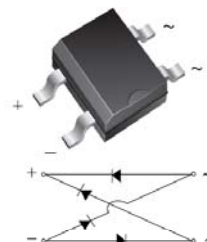


Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier

Reverse Voltage 200 to 1000 Volts Forward Current 0.5 Ampere

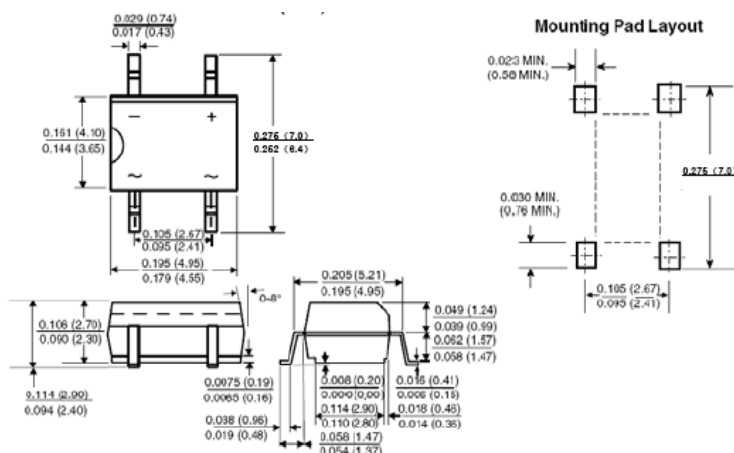
Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ High surge overload rating:35A peak
- ◆ Saves space on printed circuit boards
- ◆ High temperature soldering guaranteed:260°C/10 seconds



Mechanical Data

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



Maximum Ratings & Electrical Characteristics

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

Parameter	Symbol	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average forward output current (see Fig.1) on glass-epoxy P.C.B on aluminum substrate	$I_{F(AV)}$			0.5 ⁽¹⁾ 0.8 ⁽²⁾			A
Peak forward surge current 8.3 MS single HALF sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}			35			A
Rating for fusig ($t<8.3\text{ms}$)	I^2t			5			A ² sec
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F			1.00			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 ⁽¹⁾			$^\circ\text{C}/\text{W}$
	$R_{\theta JA}$			70 ⁽²⁾			
	$R_{\theta JL}$			20 ⁽¹⁾			
Typical junction capacitance per at 4.0V,1.0MHz	C_j			13			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 0.05×0.05"(1.3×1.3mm) pads

2. On aluminum substrate P.C.B.whth an area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

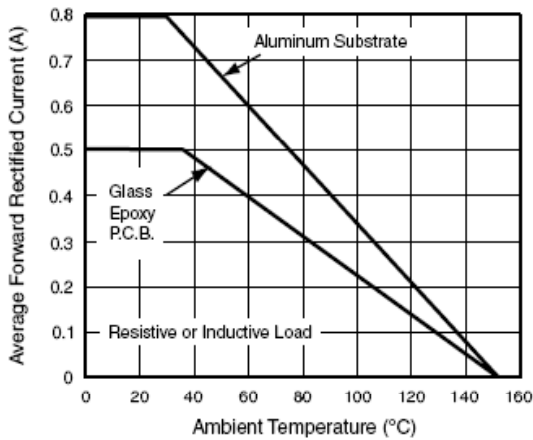


Figure 1. Derating Curve for Output Rectified Current

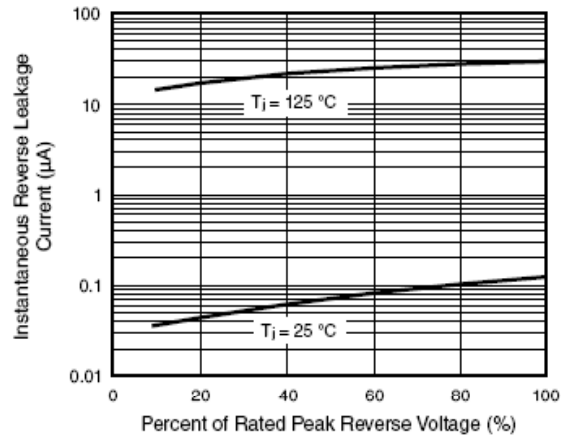


Figure 4. Typical Reverse Leakage Characteristics Per Leg

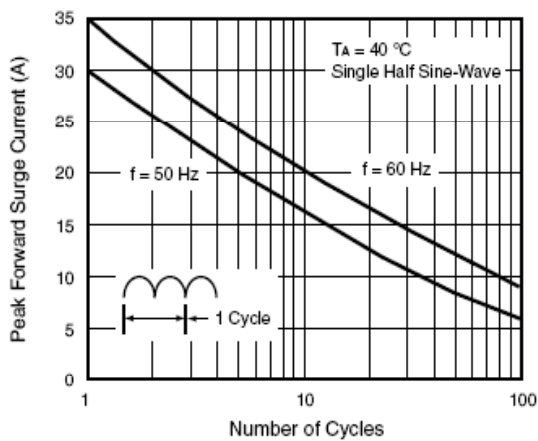


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

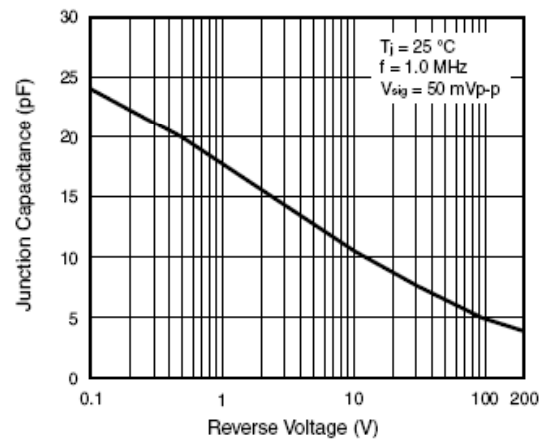


Figure 5. Typical Junction Capacitance Per Leg

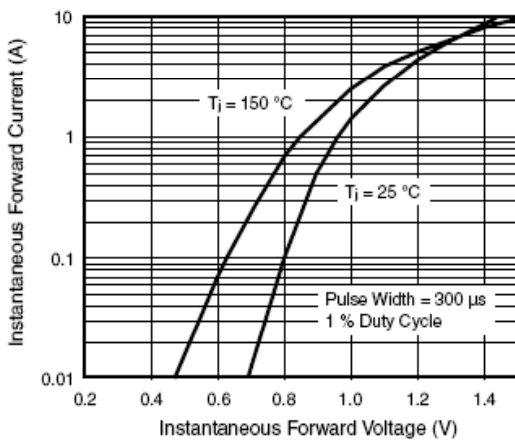


Figure 3. Typical Forward Voltage Characteristics Per Leg

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