

MB2SA thru MB10SA

Glass Passivated Bridge Rectifiers Reverse Voltage 200 to 1000V Forward Current 0.5A

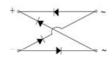
Features

- Glass passivated bridge rectifiers
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low forward voltage drop
- High temperature soldering guaranteed:260°C/10 seconds

Package: TO-269AA (MBS)

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



Schematic Diagram

Maximum Ratings and Electrical Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Symbol	MB2SA	MB4SA	MB6SA	MB8SA	MB10SA	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	٧
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	٧
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⁾			Α
Peak Forward Surge Current (8.3 ms single half sinewave superimposed on rated load, JEDEC method)	I _{FSM}			25			Α
Rating for Fusig (t<8.3ms)	l ² t			2.6			A ² sec
Maximum Instantaneous Forward Voltage Drop per Leg at 0.4A	V _F			1.00			V
Maximum DC Reverse Current at Rated $T_A=25$ °C DC Blocking Voltage per Leg $T_A=125$ °C	I _R			5 100			μΑ
Typical Thermal Resistance per Leg	$egin{array}{c} {\sf R}_{\sf heta {\sf JA}} & & & & & & & & & & \\ {\sf R}_{\sf heta {\sf JA}} & & & & & & & & & & & & & & & & & & $			85 ⁽¹⁾ 70 ⁽²⁾ 20 ⁽¹⁾			°C/W
Typical Junction Capacitance at 4.0V,1.0MHz	CJ			13			pF
Operating Junction and Storage Temperature Range	T_{J} , T_{STG}			-55 to +150			°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. with \ an \ area \ of \ 0.8 \times 0.8" (20 \times 20 mm) \ \ mounted \ on \ 0.05 \times 0.05" (1.3 \times 1.3 mm) \ solder \ pad \ \ on \ \$

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

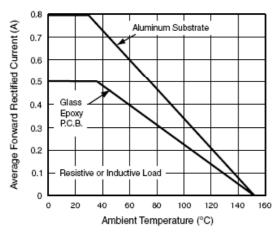


Figure 1. Derating Curve for Output Rectified Current

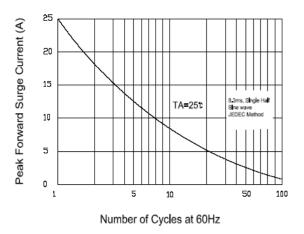


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

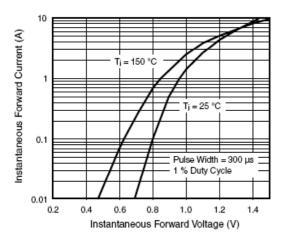


Figure 3. Typical Forward Voltage Characteristics Per Leg

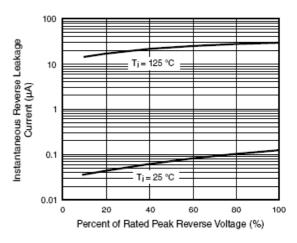


Figure 4. Typical Reverse Leakage Characteristics Per Leg

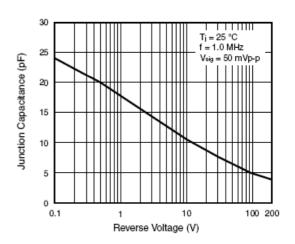


Figure 5. Typical Junction Capacitance Per Leg



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Package Outline Dimensions

in inches (millimeters)

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