

MB12S thru MB110S

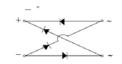
Surface Mount Schottky Bridge Rectifier Reverse Voltage 20 to 100V Forward Current 1A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge overload rating:30A peak
- Space saving
- High temperature soldering guaranteed:260°C/10 seconds



Package:TO-269AA (MBS)



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 & Electrical Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Symbol	MB12S	MB14S	MB16S	MB18S	MB110S	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	V
Maximum Average Forward Output Current	I _{F(AV)}	1.0					Α
Peak Forward Surge Current 8.3 MS Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30					Α
Maximum Instantaneous Forward Voltage at 1.0A	VF	0.50		0.70	0.85		V
Maximum DC Reverse Current at Rated T_A =25°C DC Blocking Voltage per Leg T_A =100°C	lR	0.5 20					mA
Typical Thermal Resistance per Leg (Note1)	R _{eJA} R _{eJL}	88 28					°C/W
Operation Junction Temperature Range	Tj	-55 to +125					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

 $\textbf{Notes:} \ \ \textbf{1.} \ \ \textbf{Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2 \times 0.2" (5.0 \times 5.0 mm) copper pad areas.$

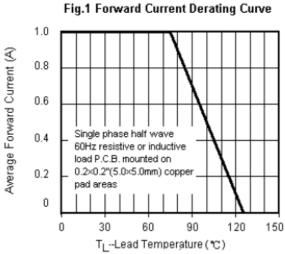


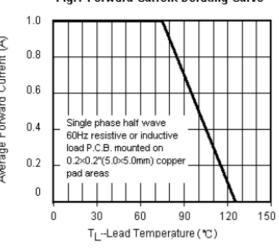
MB12S thru MB110S

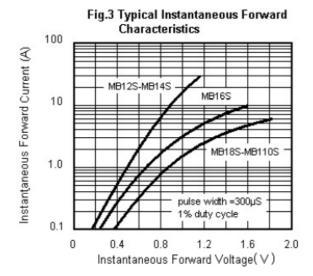
Surface Mount Schottky Bridge Rectifier Reverse Voltage 20 to 100V Forward Current 1A

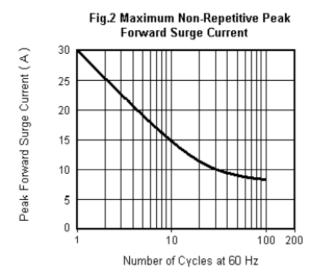
Ratings and Characteristics Curves

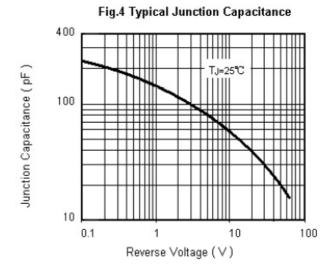
(TA = 25°C unless otherwise noted)











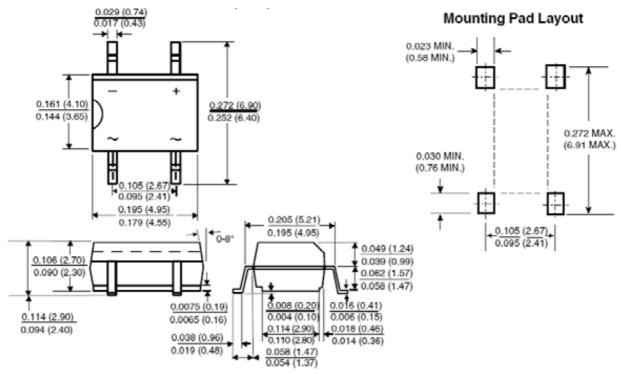


MB12S thru MB110S

Surface Mount Schottky Bridge Rectifier Reverse Voltage 20 to 100V Forward Current 1A

Package Outline Dimensions

TO-269AA (MBS)



Dimensions in inches and (millimeters)