

# MB12S THRU MB110S

**Surface Mount Schottky Bridge  
Rectifier  
1Amp 20 to 100 Volts**

## Features

- High Temperature Soldering Guaranteed: 260°C/10 Second
- Saves Space On Printed Circuit Board

## Mechanical Data

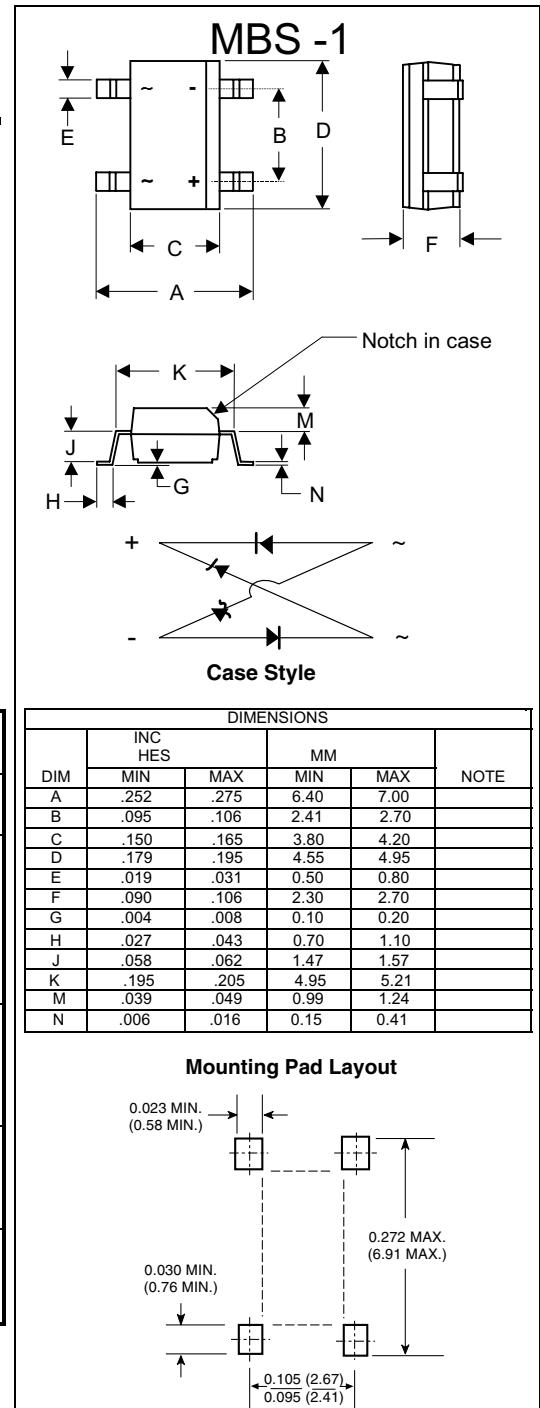
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Terminals: Plated leads Solderable per MIL-STD-750, Method 2026
- Moisture Sensitivty: Level 1 per J-STD-020C

Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB12S	MB12S	20V	14V	20V
MB14S	MB14S	40V	28V	40V
MB16S	MB16S	60V	42V	60V
MB18S	MB18S	80V	56V	80V
MB110S	MB110S	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1A	
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 12V MB14S 16V MB16S 18V~100V MB18S~MB110S	V <sub>F</sub>	0.50V 0.70V 0.85V	I <sub>FM</sub> = 1A; T <sub>A</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.5mA 20mA	T <sub>A</sub> = 25°C T <sub>A</sub> = 100 °C
Typical Thermal Resistance	R <sub>thJA</sub> R <sub>thJL</sub>	88°C/W <sup>(2)</sup> 28°C/W <sup>(2)</sup>	per leg
Operating Junction and Storage Temperature Range	T <sub>J</sub> T <sub>STG</sub>	-55 to +150 °C	

- Notes:
1. High Temperature Solder Exemption Applied.
  2. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2" x 0.2" (5.0 x 5.0mm) copper pad areas.



# MB12S THRU MB110S

## Surface Mount Schottky Bridge Rectifier 1Amp 20 to 100 Volts

