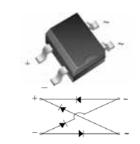


## **Surface Mount Schottky Bridge Rectifier**

### Reverse Voltage 20 to 100 Volts Forward Current 1.0 Ampere

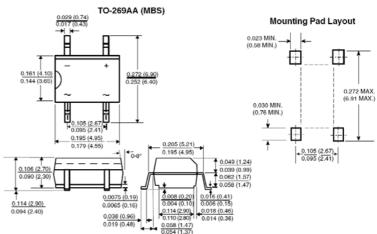
#### **Features**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High surge overload rating:30A 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<sub>A</sub>=25<sup>°</sup>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	٧
Maximum DC blocking voltage		$V_{DC}$	20	40	60	80	100	V
Maximum Average forward output current		I <sub>F(AV)</sub>	1.0					Α
Peak forward surge current 8.3 MS single HALF sine-way superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	30					Α
Maximum instantaneous forward voltage at 1.0A		VF	0.50		0.70	0.85		V
Maximum DC reverse current at rated DC blocking voltage per leg	TA=25℃ TA=100℃	IR			0.5 20			mA
Typical thermal resistance per leg(Note1)		$R_{ hetaJA}$	88 28					°C/W
Operation junction temperzture range		Tj	-55 to +125					$^{\circ}$
Storage temperature range		$T_{STG}$	-55 to +150					$^{\circ}$

Notes: 1. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2×0.2"(5.0×5.0mm) copper pad areas.



## **Surface Mount Schottky Bridge Rectifier**

Reverse Voltage 20 to 100 Volts Forward Current 1.0 Ampere

### **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve 1.0 Average Forward Current (A) 0.8 0.6 Single phase half wave 0.4 60Hz resistive or inductive load P.C.B. mounted on 0.2×0.2"(5.0×5.0mm) copper 0.2 pad areas 0 0 30 60 90 120 150 T<sub>L</sub>--Lead Temperature (℃)

