GOOD-ARK

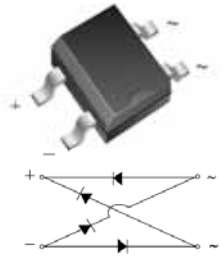
MB12S thru MB110S

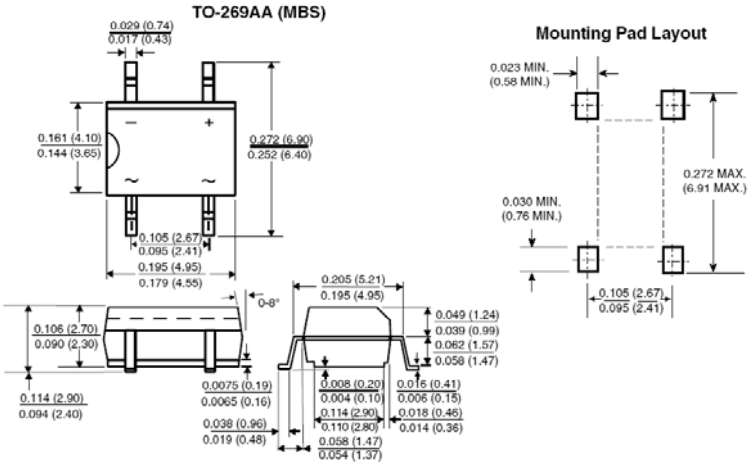
Surface Mount Schottky Bridge Rectifier

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_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					A
Peak forward surge current 8.3 MS single HALF sine-wav superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Maximum instantaneous forward voltage at 1.0A	VF	0.50		0.70	0.85		V
Maximum DC reverse current at TA=25°C rated DC blocking voltage per leg TA=100°C	IR	0.5 20					mA
Typical thermal resistance per leg(Note1)	$R_{\theta JA}$ $R_{\theta JL}$	88 28					°C/W
Operation junction temperzture range	Tj	-55 to +125					°C
Storage temperature range	T_{STG}	-55 to +150					°C

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.

GOOD-ARK

MB12S thru MB110S

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

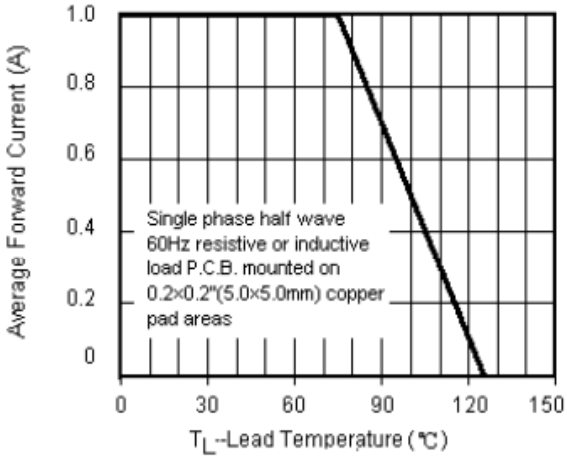


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

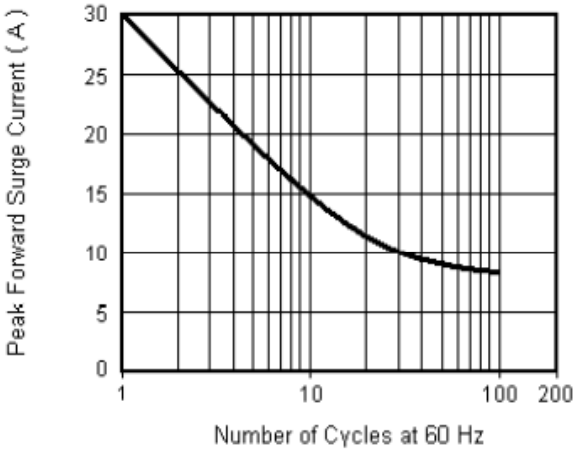


Fig.3 Typical Instantaneous Forward Characteristics

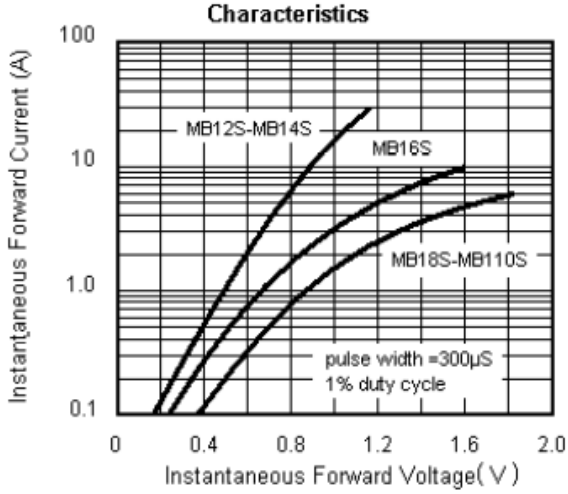


Fig.4 Typical Junction Capacitance

