

MB12S thru MB110S

Surface Mount Schottky Bridge Rectifier

Reverse Voltage 20 to 100 Volts Forward Current 1.0 Ampere

Features

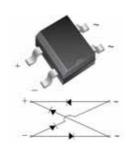
Plastic package has Underwriters Laboratory Flammability

Classification 94V-0

High surge overload rating:30A peak

Saves space on printed circuit boards

High temperature soldering guaranteed:260 /10 seconds





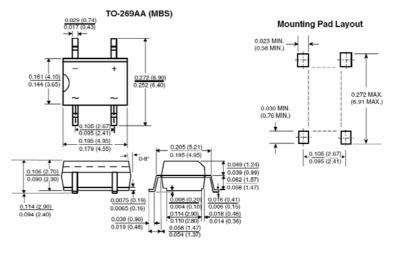
Case:Molded plastic body over passivated junctions

Terminals: plated leads solderable per MIL-STD-750,

Method 2026

Mounting Position:Any

Weight:0.078 oz.,0.22g



Maximum Ratings & Electrical Characteristics

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					А
Peak forward surge current 8.3 MS single HALF sine-way		I _{FSM}	30					А
superimposed on rated load (JEDEC Method)								
Maximum instantaneous forward voltage at 1.0A		VF	0.50 0.70		0.	85	V	
Maximum DC reverse current at	TA=25	IR	0.5					mA
ted DC blocking voltage per leg TA=100		ii (20					
Typical thermal resistance per leg(Note1)		R_{\thetaJA}	88 28					/W
		$R_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$						
Operation junction temperzture range		Tj	-55 to +150					
Storage temperature range		T _{STG}	-55 to +150					

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.

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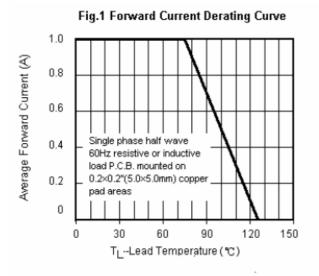
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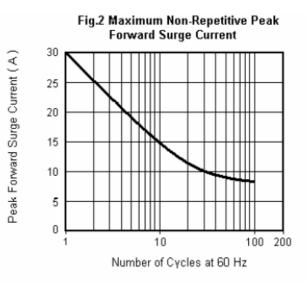
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Ratings and Characteristics Curves

(TA = 25 unless otherwise noted)





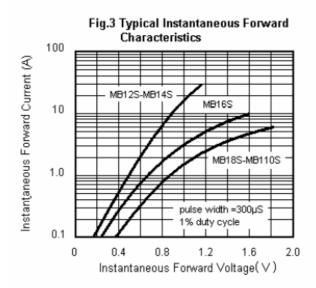
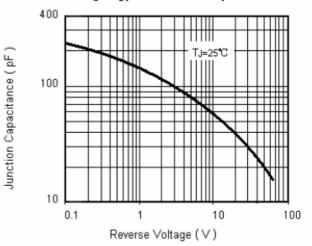


Fig.4 Typical Junction Capacitance





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