



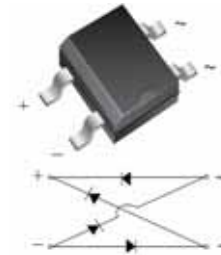
MB12S thru MB110S

Surface Mount Schottky Bridge Rectifier

Reverse Voltage 20 to 100 Volts Forward Current 1.0 Ampere

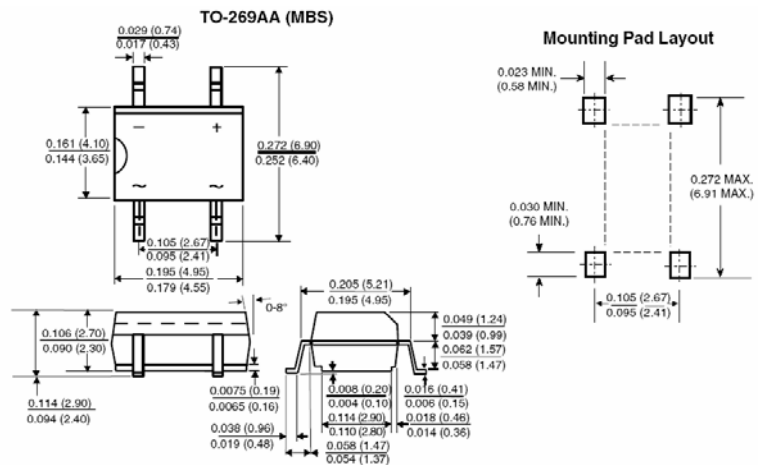
Features

- 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



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

($T_A=25$ 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-wave 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 rated DC blocking voltage per leg	I_R	0.5					20	mA
Typical thermal resistance per leg(Note1)	$R_{\theta JA}$	88					/W	
	$R_{\theta JL}$	28						
Operation junction temperztture range	T_J	-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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Ratings and Characteristics Curves

(TA = 25 unless otherwise noted)

Fig.1 Forward Current Derating Curve

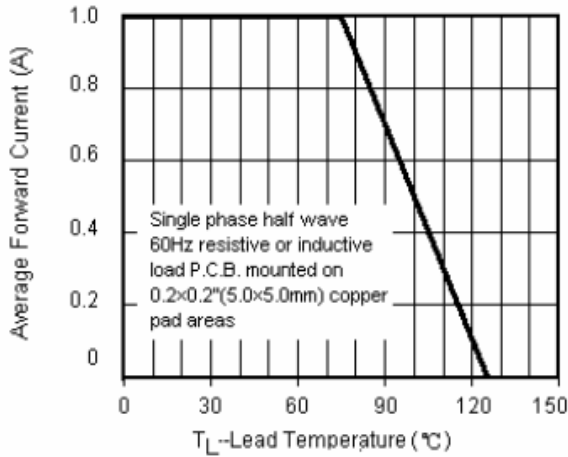


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

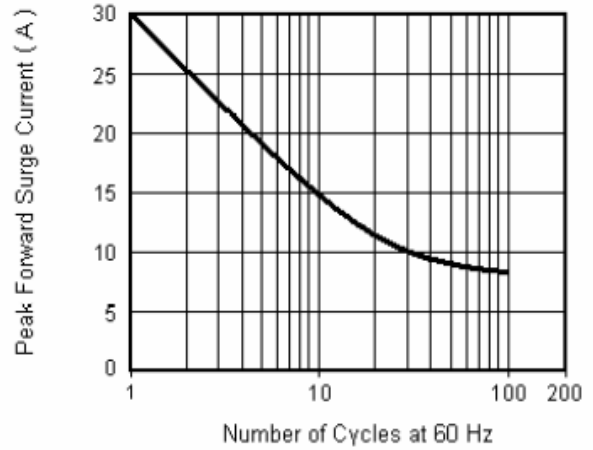


Fig.3 Typical Instantaneous Forward Characteristics

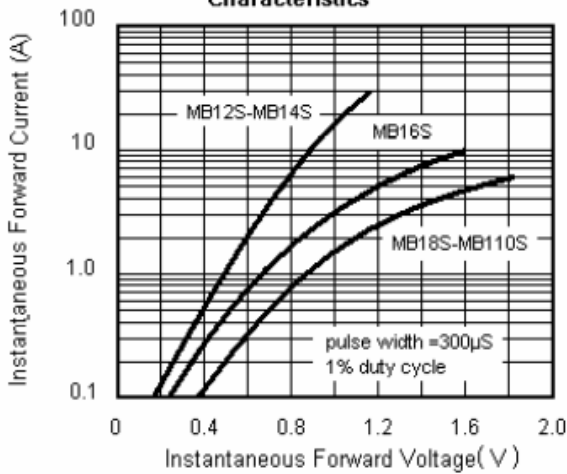


Fig.4 Typical Junction Capacitance

