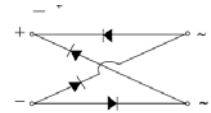


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge overload rating:30A peak
- Space saving
- High temperature soldering guaranteed:260°C/10 seconds



Package:TO-269AA (MBS)



Schematic Diagram

Mechanical Data

- Case: Molded plastic body over passivated junctions
- Terminals: plated leads solderable per MIL-STD-750 Method 2026
- Mounting Position: Any
- Weight: 0.078oz., 0.22g

Maximum Ratings & Electrical Characteristics

($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	MB115S	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	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	V_F	0.89	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Leg	I_R	30 1000	uA
Typical Thermal Resistance per Leg (Note1)	$R_{\theta JA}$	85	°C/W
	$R_{\theta JL}$	25	
Operation Junction Temperature Range	T_j	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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

Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

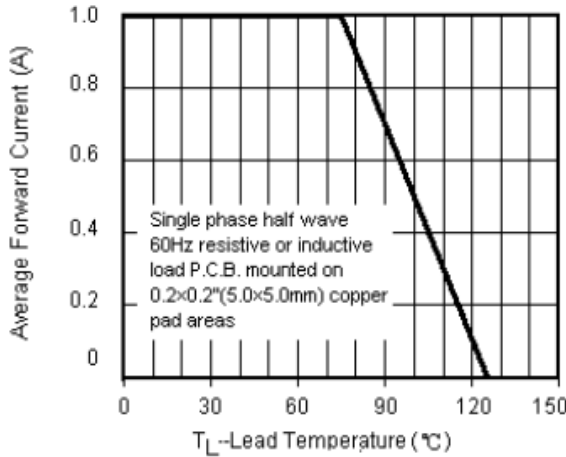
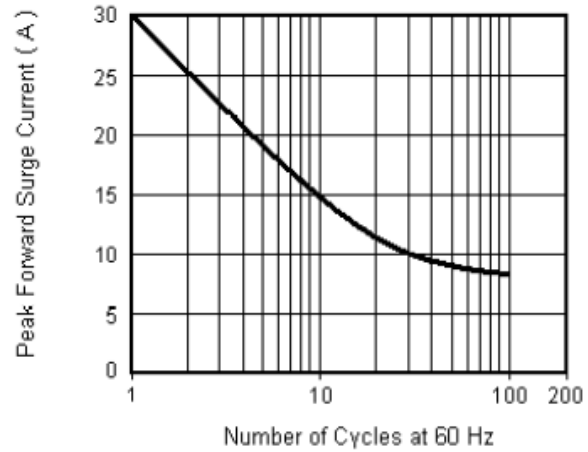
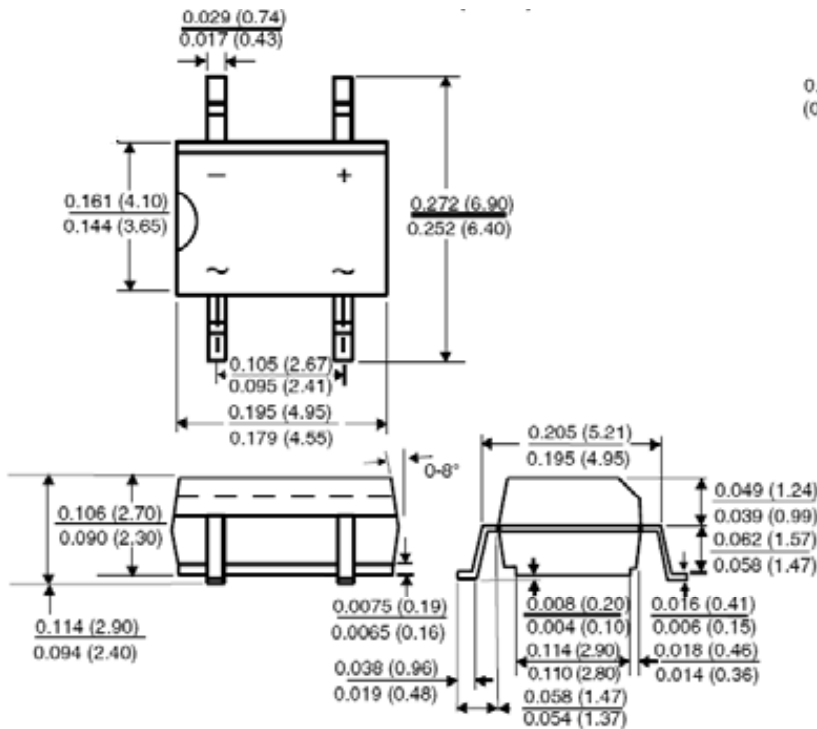


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current



Package Outline Dimensions

TO-269AA (MBS)



Mounting Pad Layout

