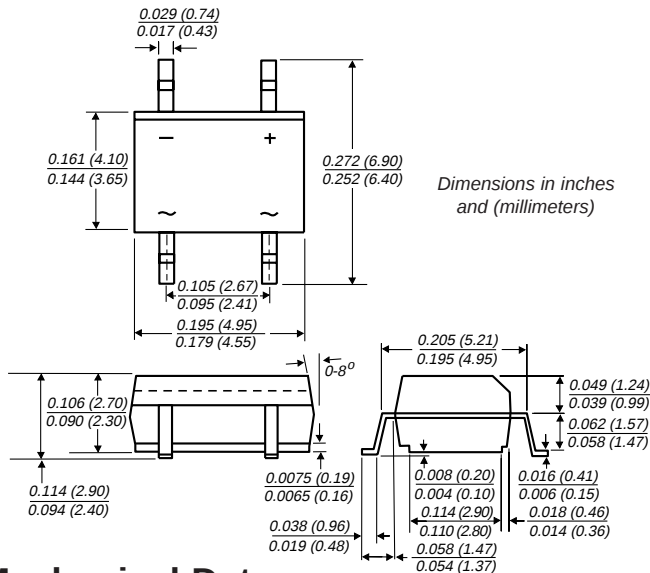
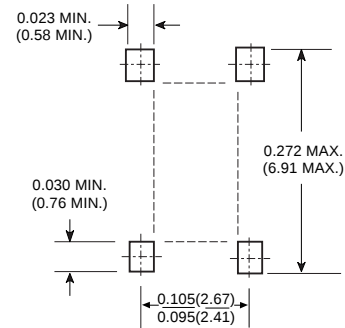


**Miniature Glass Passivated Single-Phase
Surface Mount Bridge Rectifier****TO-269AA (MBS)****Reverse Voltage** 200 to 600V
Forward Current 0.5A**Mounting Pad Layout****Mechanical Data****Case:** Molded plastic body over passivated junctions**Terminals:** Plated leads solderable
per MIL-STD-750, Method 2026**Mounting Position:** Any **Weight:** 0.078 oz., 0.22 g**Packaging codes-options:**

80-3K per 13" Paper Reel, 36K/carton

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL recognized under Component Index, file number E54214
- Glass passivated chip junctions
- High surge overload rating: 35A peak
- Saves space on printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds.

Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	MB2S	MB4S	MB6S	Unit
Device marking code		2	4	6	
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking voltage	V_{DC}	200	400	600	V
Maximum average forward output rectified current (see Fig. 1) on glass-epoxy P.C.B. on aluminum substrate	$I_{F(AV)}$		0.5 ⁽¹⁾ 0.8 ⁽²⁾		A
Peak forward surge current 8.3msec single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}		35		A
Rating for fusing ($t < 8.3\text{ms}$)	I^2t $R_{\theta JA}$		5.0 85 ⁽¹⁾		A ² sec
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JL}$		70 ⁽²⁾ 20 ⁽¹⁾		°C/W
Operating junction and storage temperature range	T_J, T_{STG}		-55 to +150		°C

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

Max. instantaneous forward voltage drop per leg at 0.4A	V_F		1.0	V
Maximum DC reverse current at rated DC blocking voltage per leg $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R		5.0 100	μA
Typical junction capacitance per leg at 4.0V, 1 MHz	C_J		13	pF

Notes: (1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads

(2) On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

Fig. 1 - Derating Curve for Output Rectified Current

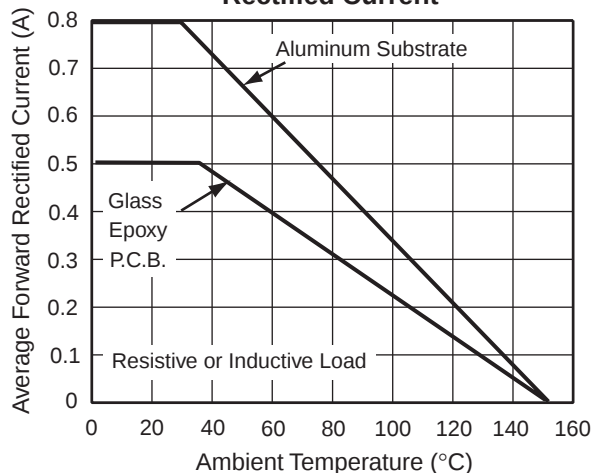


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

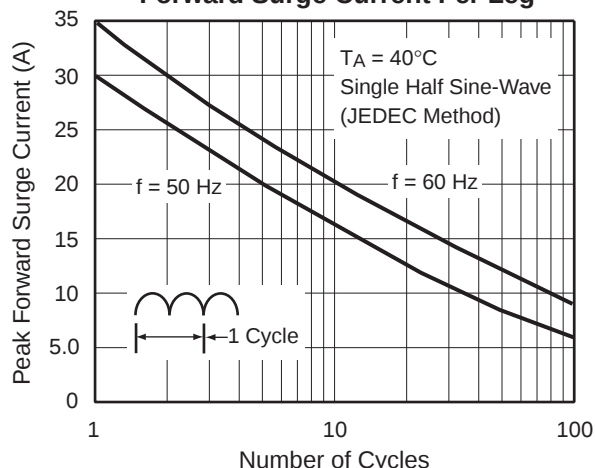


Fig. 3 - Typical Forward Voltage Characteristics Per Leg

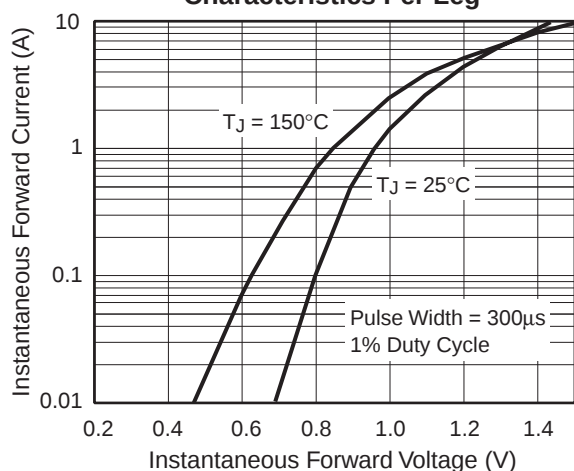


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

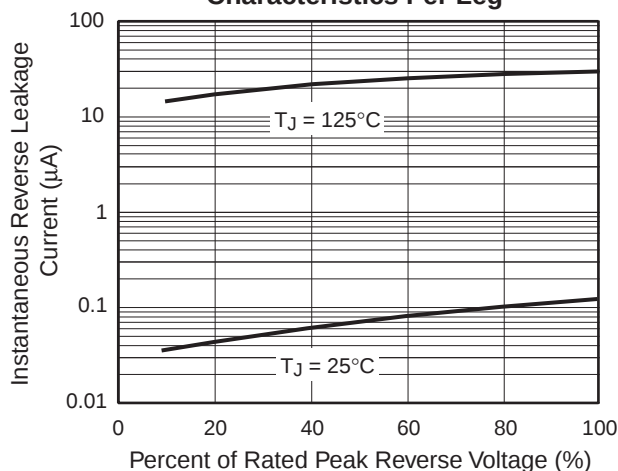


Fig. 5 - Typical Junction Capacitance Per Leg

