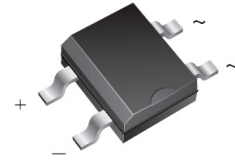


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated super fast recovery bridge rectifiers
- High surge overload rating: 30A peak
- Space saving
- High temperature soldering guaranteed: 260°C /10 seconds
- Add suffix "E" for Halogen-free
- Halogen-free according to IEC 61249-2-21

Reverse Voltage 400V Forward Current 1A



Package: TO-269AA(MBS)

Mechanical Data

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

Maximum Ratings and Electrical Characteristics

(T_A = 25°C unless otherwise noted)

Parameter	Symbol	SMB4S	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	V
Maximum RMS Voltage	V _{RMS}	280	V
Maximum DC Blocking Voltage	V _{DC}	400	V
Maximum Average Forward Output Current (Fig.1)	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
Rating for Fusig (t<8.3ms)	I ² t	3.7	A ² sec
Maximum Instantaneous Forward Voltage Drop per Leg at 1.0A	V _F	1.30	V
Maximum DC Reverse Current at T _A =25°C Rated DC Blocking Voltage per Leg T _A =125°C	I _R	5 500	μA
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	T _{rr}	35	nS
Typical Thermal Resistance per Leg (NOT 1)	R _{θJA}	55	°C/W
	R _{θJC}	25	
Typical Junction Capacitance per at 4.0V, 1.0MHz	C _J	16	pF
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

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

Ratings and Characteristics Curves

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

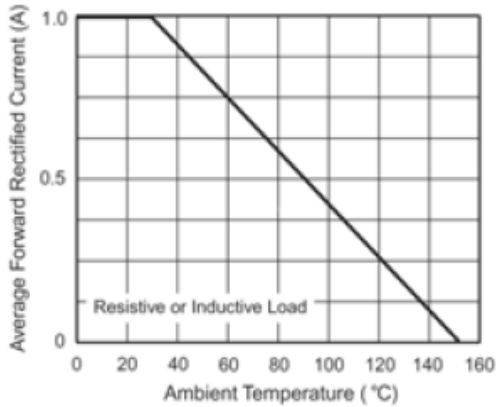


Figure 1. Derating Curve for Output Rectified Current

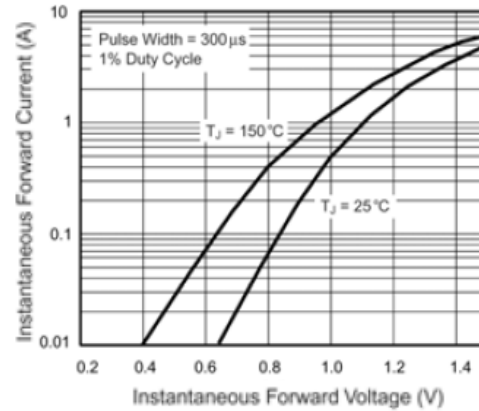


Figure 3. Typical Forward Voltage Characteristics Per Leg

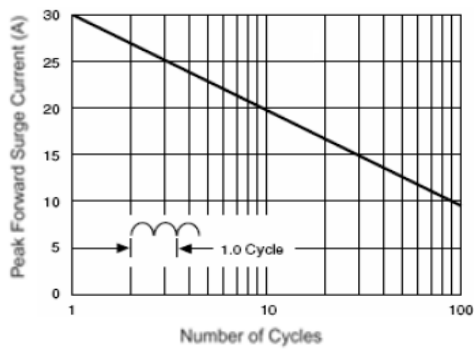


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

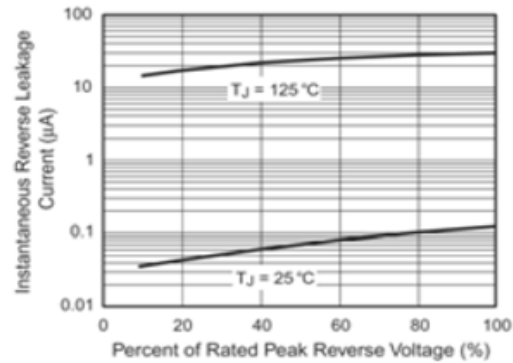


Figure 4. Typical Reverse Leakage Characteristics Per Leg

Package Outline Dimensions

in inches (millimeters)

TO-269AA(MBS)

