

S1AF THRU S1MF

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

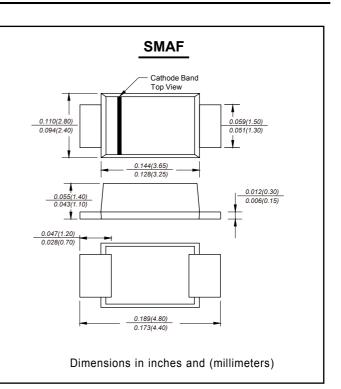
FEATURES

- Glass Passivated Die Construction
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
- 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMAF molded plastic body over passivated chip Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.0018 ounce, 0.064 grams





Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	v
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_L = 100^{\circ}C$		lo	1.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							А
Forward Voltage	@I _F = 1.0A	VFM	1.10						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$		Irm	5.0 50.0							μA
Typical Junction Capacitance (Note 2)		Cj	15							pF
Typical Thermal Resistance (Note 3)		R∉jl	75							°C/W
Operating and Storage Temperature Range		Tj, TSTG	-55 to +150							°C

Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A,

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 0.2x0.2² (5.0x5.0mm) copper pad areas



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RATINGS AND CHARACTERISTIC CURVES

