S1AF THRU S1MF-HAF

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 V

Forward Current - 1 A

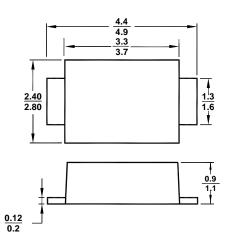
Features

- Glass Passivated Chip Juntion
- · For surface mount applications
- · Low profile package
- · Easy pick and place
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

· Case: SMAF

• Terminals: Solderable per MIL-STD-750, method 2026



SMAF

All Dimensions in mm

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

tor capacitive load current derate by 2070.									
Parameter	Symbols	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Units
	Marking	S1A	S1B	S1D	S1G	S1J	S1K	S1M	-
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _a = 65°C	I _{F(AV)}	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							Α
Maximum Forward Voltage at 1 A	V _F	1.1						V	
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Blocking Voltage $T_a = 125^{\circ}$ C	I _R	5 50							μA
Typical Junction Capacitance at V _R = 4 V, f = 1 MHz	С	4						pF	
Typical Thermal Resistance 1)	$R_{\theta JA}$	180							°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150							°C

 $^{^{1)}}$ P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

