S1AF THRU S1MF-HAF

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage – 50 to 1000 V Forward Current – 1 A

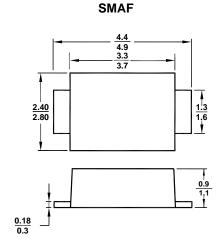
Features

- 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



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%.

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Symbols	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Units
Marking	S1A	S1B	S1D	S1G	S1J	S1K	S1M	-
V_{RRM}	50	100	200	400	600	800	1000	V
V_{RMS}	35	70	140	280	420	560	700	V
V_{DC}	50	100	200	400	600	800	1000	V
I _{F(AV)}	1						Α	
I _{FSM}	30						Α	
V _F	1.1						V	
I _R	5 50						μΑ	
СЈ	4						pF	
$R_{\theta JA}$	180						°C/W	
T _j , T _{stg}	- 55 to + 150						°C	
	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Marking S1A V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)}	Marking S1A S1B V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F I _R C _J R _{0JA}	Marking S1A S1B S1D V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} I _{F(AV)} V _F I _R C _J R _{θJA}	Marking S1A S1B S1D S1G V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _{F(AV)} 1 30 V _F 1.1 1 I _R 50 50 C _J 4 4 R _{ΘJA} 180	Marking S1A S1B S1D S1G S1J V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _{F(AV)} 1 30 V _F 1.1 1 I _R 5 50 C _J 4 4 R _{θJA} 180	Marking S1A S1B S1D S1G S1J S1K V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _{F(AV)} 1 30 30 4 1.1	Marking S1A S1B S1D S1G S1J S1K S1M V _{RRM} 50 100 200 400 600 800 1000 V _{RMS} 35 70 140 280 420 560 700 V _{DC} 50 100 200 400 600 800 1000 I _{F(AV)} 1 30 30 4 4 4 V _F 1.1 5 50 50 4 4 4 C _J 4 180 4

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

