S2AF THRU S2MF

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage – 50 to 1000 V

Forward Current - 2 A

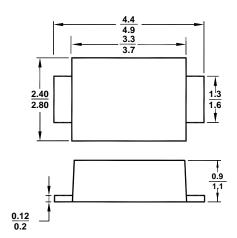
Features

- · Glass Passivated Chip Juntion
- For surface mount applications
- Low profile package
- · Easy pick and place

Mechanical Data

· Case: SMAF

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



SMAF

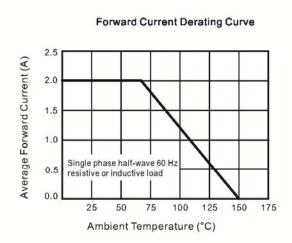
All Dimensions in mm

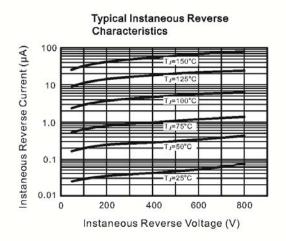
Maximum Ratings and Electrical Characteristics

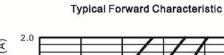
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

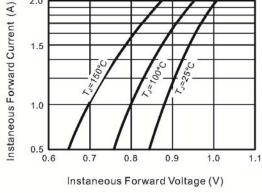
ioi capacitive load current derate by 20 %.									
Parameter	Symbols	S2AF	S2BF	S2DF	S2GF	S2JF	S2KF	S2MF	Units
	Marking	S2A	S2B	S2D	S2G	S2J	S2K	S2M	-
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at T _a = 65°C	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60							Α
Maximum Forward Voltage at 2 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							μΑ
Typical Junction Capacitance at V _R = 4 V, f = 1 MHz	CJ	30						pF	
Typical Thermal Resistance 1)	$R_{\theta JA}$	50							°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.









Typical Junction Capacitance

