

S1AF THRU S1MF

Surface Mount Rectifiers

Reverse Voltage 50 - 1000 Volts Forward Current - 1.0 Amperes

FEATURES

- ●Low reverse leakage
- Glass passivated chip junction
- High forward surge capability
- High temperature soldering guaranteed: 260°C/10 秒 seconds at terminals
- ●Lead and body according with RoHS standard

MECHANICAL DATA

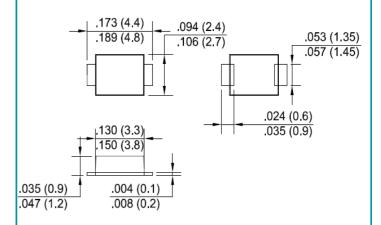
◆Case: Molded plastic body

●Terminals: Solder plated

Polarity: Color band denotes cathode end

• Mounting Position: Any

SMAF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ unless otherwise specified.

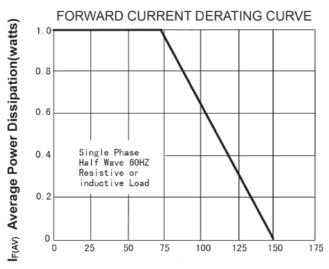
Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

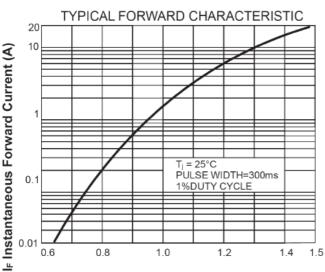
SYMBOL	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	UNIT
Vrrm	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
lf(AV)	1.0							Α
IFSM	30						Α	
lr(AV)	30						uA	
lo.	5.0						uA	
IR	50							
VF	1.1						V	
Rөja	75							°C/W
CJ	15							pF
TJ	-55 to +150							$^{\circ}$
Тѕтс	-55 to +150							$^{\circ}$
	VRRM VRMS VDC IF(AV) IFSM IR(AV) IR VF R0JA CJ TJ	VRRM 50 VRMS 35 VDC 50 IF(AV) IFSM IR(AV) IR VF RØJA CJ TJ	VRRM 50 100 VRMS 35 70 VDC 50 100 IF(AV) IFSM IR(AV) IR VF R R CJ TJ	VRRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 IF(AV) IFSM IR(AV) IR VF Reja CJ TJ -5	VRRM 50 100 200 400 VRMS 35 70 140 280 VDC 50 100 200 400 IF(AV) 1.0 30 IR(AV) 30 5.0 IR 50 50 VF 1.1 Reja 75 CJ 15 -55 to +15	VRRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 IF(AV) 1.0 30 IR(AV) 30 5.0 IR 50 1.1 Rejja 75 75 CJ 15 -55 to +150	VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 IF(AV) 1.0 30	VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 IF(AV) 1.0 30 <

Note 1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

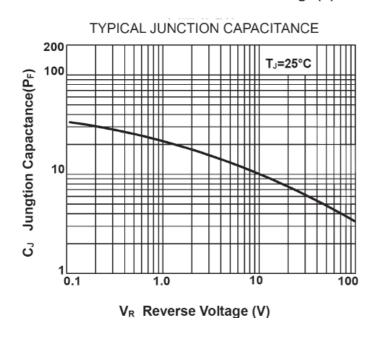


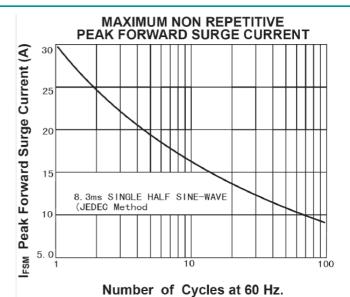


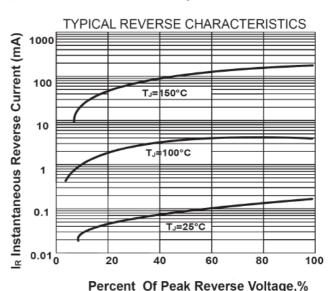
Tamb, ambient temperature (°C)



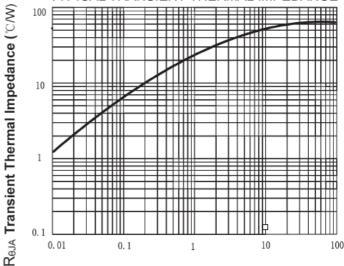
V_F Instantaneous Forward Voltage (V)







TYPICAL TRANSIENT THERMAL IMPEDANCE 100



t, Pulse Duration, sec



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