

RS1AF THRU RS1MF

Features

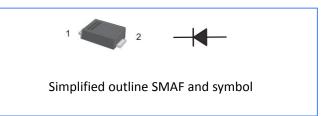
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

Case: SMAF

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

Approx. Weight: 27mg / 0.00095oz



Pinning	
PIN	DESCRIPTION
1	Cathode
2	Anode

Absolute Maximum Ratings And Characteristics

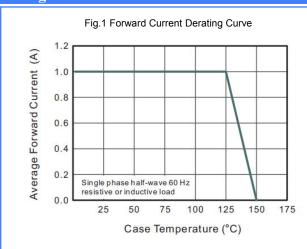
Ratings at 25°C ambient temperature unless otherwise specified.

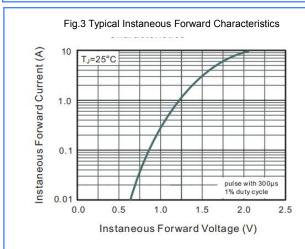
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

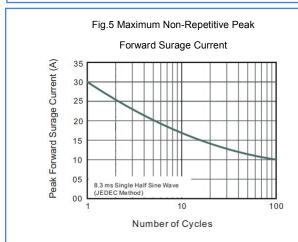
Parameter	Symbols	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at Tc = 125 °C	I _{F(AV)}	1					А		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	30							А
Maximum Forward Voltage at 1 A	VF	1.3						V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 50						μ A	
Typical Junction Capacitance at VR=4V f=1M	Cj	15					pF		
Maximum Reverse Recovery Time(1)	trr	150 250 500				00	ns		
Typical Thermal Resistance (2)	$R_{\theta JA}$	80					°C/W		
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ +150						$^{\circ}$	

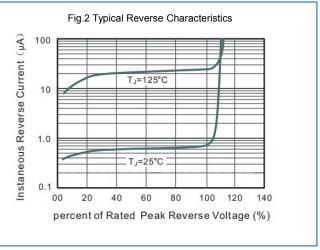
- (1) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A
- (2) .P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

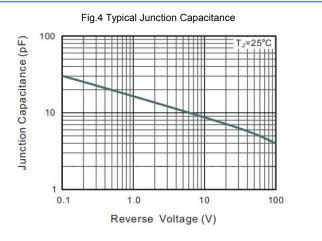
Rating And Characteristic Curves







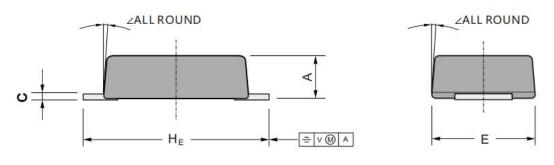


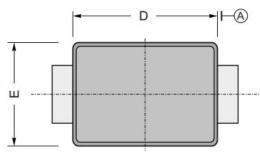


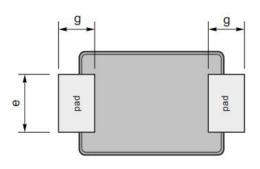
Package Outline

Plastic surface mounted package; 2 leads

SMAF







Top View

Bottom View

UNIT		А	С	D	Е	е	g	HE	
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	7°
mil	max	47	7.9	146	106	63	47	193	'
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size

