

Surface Mount Fast Recovery Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 3 A

FEATURES

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

MECHANICAL DATA

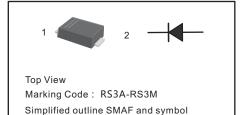
· Case: SMAF

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

• Approx. Weight: 27mg 0.00086oz

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

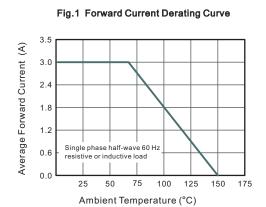
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

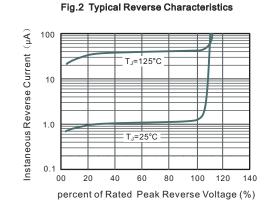
Parameter	Symbols	RS3AF	RS3BF	RS3DF	RS3GF	RS3JF	RS3KF	RS3MF	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100						A	
Maximum Instantaneous Forward Voltage at 3 A	V _F	1.3						V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 200						μА	
Maximum Reverse Recovery Time 1)	t _{rr}	150 250					ns		
Typical Junction Capacitance ²⁾	C _j	60						pF	
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ + 150						°C	

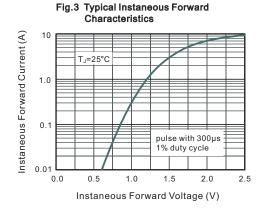
^{1)} Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A

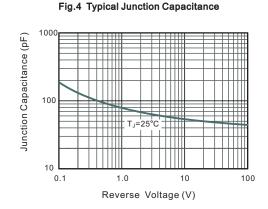
²⁾ Measured at 1MHz and applied reverse voltage of 4V D.C

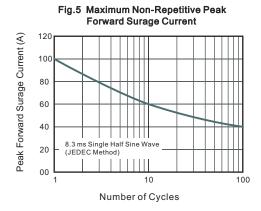










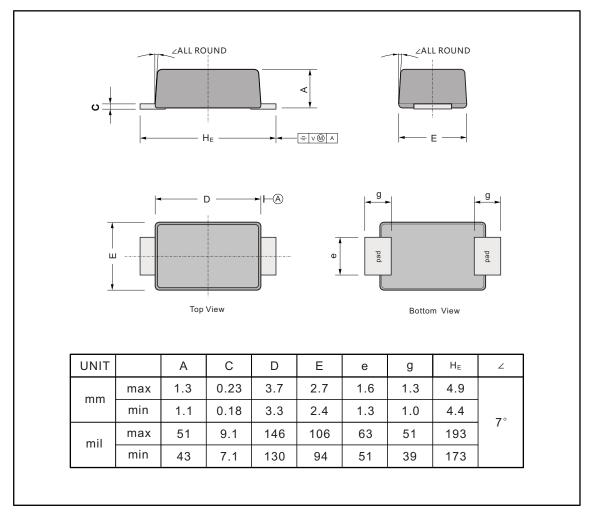




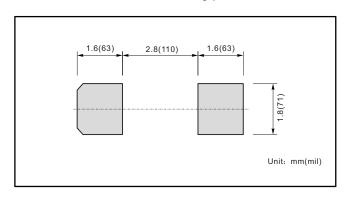
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size



Marking

Type number	Marking code				
RS3AF	RS3A				
RS3BF	RS3B				
RS3DF	RS3D				
RS3GF	RS3G				
RS3JF	RS3J				
RS3KF	RS3K				
RS3MF	RS3M				