

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 Junction
- · Easy to pick and place
- · Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

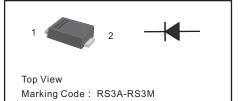
· Case: SMAF

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

• Approx. Weight: 27mg / 0.00095oz

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Simplified outline SMAF and symbol

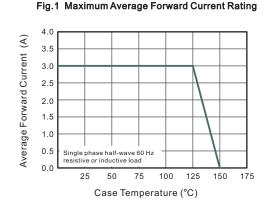
Absolute Maximum Ratings and Characteristics

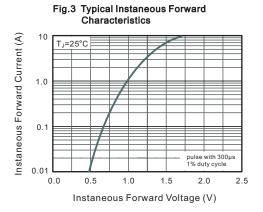
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

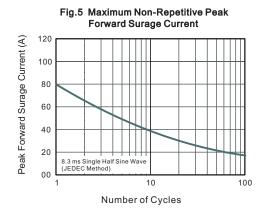
Parameter	Symbols	RS3AF	RS3BF	RS3DF	RS3GF	RS3JF	RS3KF	RS3MF	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc = 125 °C	I _{F(AV)}	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	80						А	
Maximum Forward Voltage at 3 A	V _F	1.3							٧
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	5 100						μА	
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	32						pF	
Maximum Reverse Recovery Time (1)	t _{rr}	150 250			500		ns		
Typical Thermal Resistance (2)	$R_{ heta_{JA}} \ R_{ heta_{JC}}$	50 16						°C/W	
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150						°C	

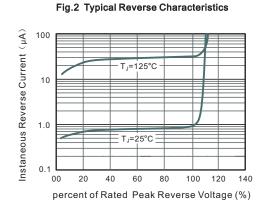
⁽¹⁾ Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$.

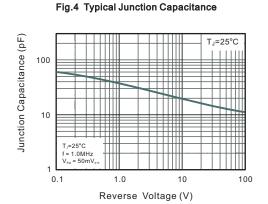
⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.







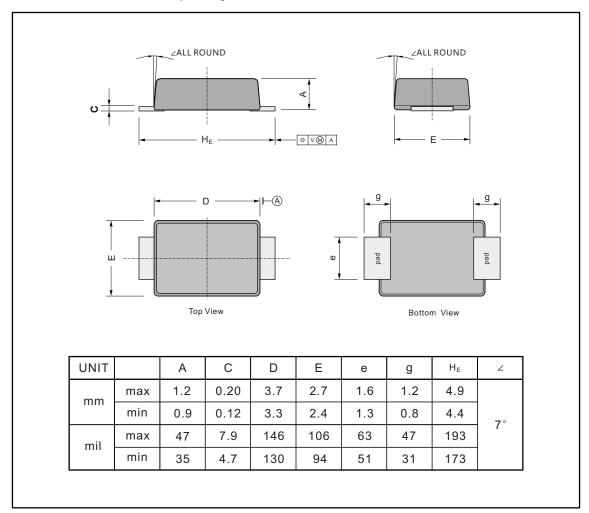




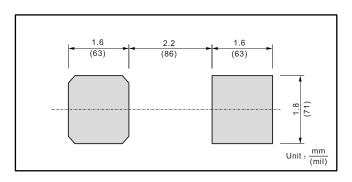
PACKAGE OUTLINE

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				

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