PECLERS®

RS2AF THRU RS2MF

Fast Recovery Rectifiers

PINNING



Marking Code: RS2A-RS2M Simplified outline SMAF and symbol

PIN DESCRIPTION

1 Cathode

2 Anode

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EUdirectives

MECHANICAL DATA

Case: SMAF

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

Approx. Weight:27mg 0.00086oz

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	RS2AF	RS2BF	RS2DF	RS2GF	RS2JF	RS2KF	RS2MF	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	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)}				2				А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	Ігэм				50				A
Maximum Instantaneous Forward Voltage at 1 A	V _F				1.3				V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R				5 100				μA
Typical Junction Capacitance $^{1)}$ at V_R =4 V , f=1 MHz	C _j	40				рF			
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{rr} =0.25A	t _{rr}		1	50		250	50	00	NS
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150				$^{\circ}$			

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

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Characteristic Curves (T_A =25 $^{\circ}$ C unless otherwise noted)

Fig.1 Forward Current Derating Curve

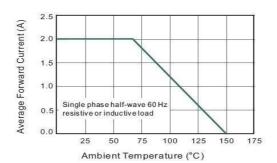


Fig.2 Typical Reverse Characteristics

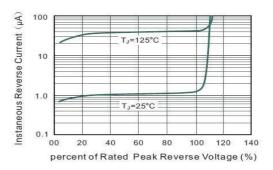


Fig.3 Typical Instaneous Forward Characteristics

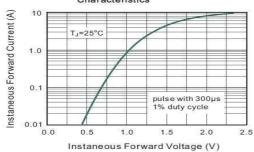


Fig.4 Typical Junction Capacitance

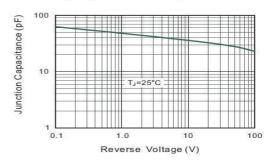
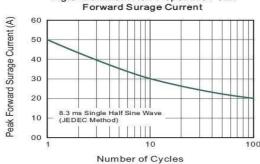


Fig.5 Maximum Non-Repetitive Peak



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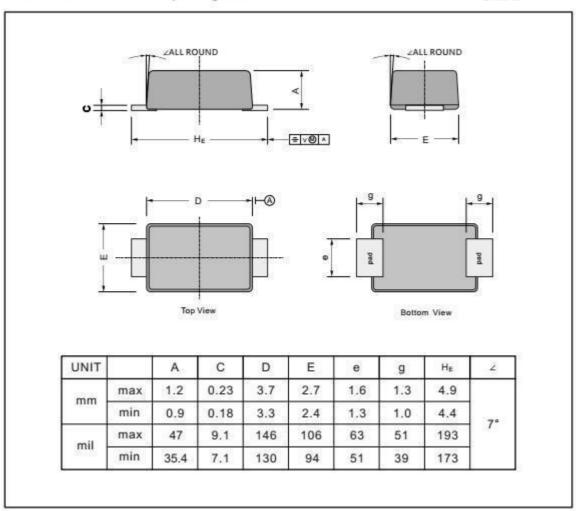
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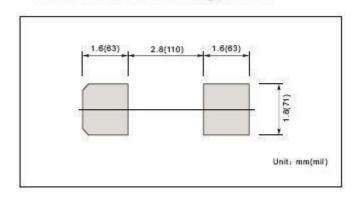
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size



Marking

Type number	Marking code				
RS2AF	RS2A				
RS2BF	RS2B				
RS2DF	RS2D				
RS2GF	RS2G				
RS2JF	RS2J				
RS2KF	RS2K				
RS2MF	RS2M				