Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 2 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

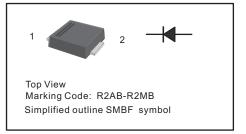
· Case: SMBF

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

• Approx. Weight: 57mg / 0.002oz

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	RS2ABF	RS2BBF	RS2DBF	RS2GBF	RS2JBF	RS2KBF	RS2MBF	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 T_c = 125 °C	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50						А	
Maximum Forward Voltage at 2 A	V _F	1.3							٧
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 100						μΑ	
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	28						pF	
Maximum Reverse Recovery Time (1)	t _{rr}	150 250 500			00	ns			
Typical Thermal Resistance (2)	$R_{ heta_{JA}}$ $R_{ heta_{JC}}$	60 18						°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.

RS2ABF THRU RS2MBF



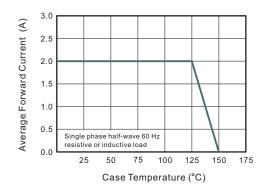


Fig.2 Typical Reverse Characteristics

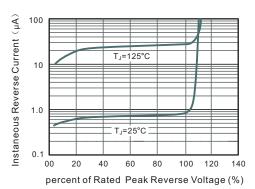


Fig.3 Typical Instaneous Forward Characteristics

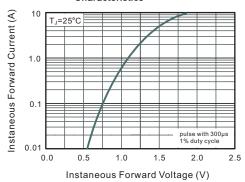


Fig.4 Typical Junction Capacitance

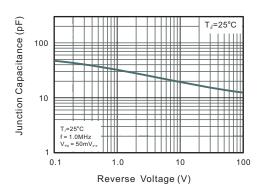
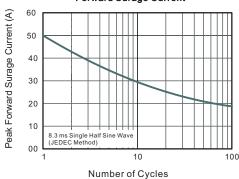


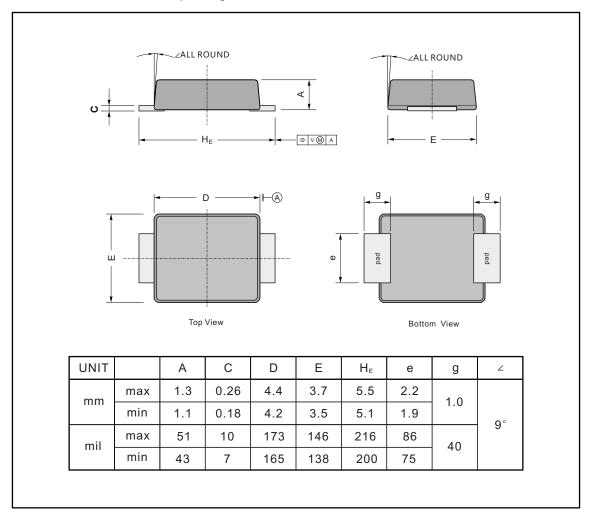
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



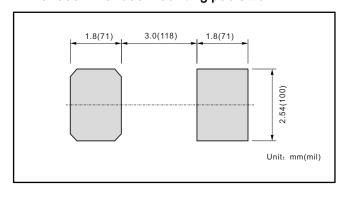
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



The recommended mounting pad size



Marking

Type number	Marking code				
RS2ABF	R2AB				
RS2BBF	R2BB				
RS2DBF	R2DB				
RS2GBF	R2GB				
RS2JBF	R2JB				
RS2KBF	R2KB				
RS2MBF	R2MB				

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