

RS2ABF THRU RS2MBF

Features

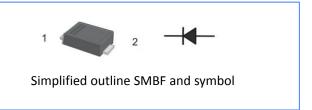
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

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

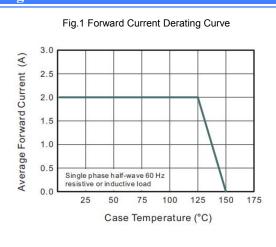
Ratings at 25°C ambient temperature unless otherwise specified.

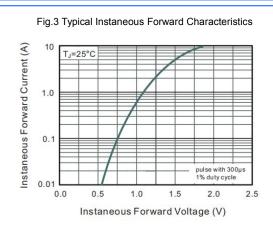
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

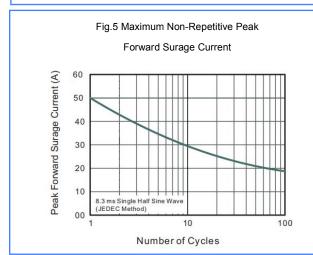
Parameter	Symbols	RS2ABF	RS2BBF	RS2DBF	RS2GBF	RS2JBF	RS2KBF	RS2MBF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc = 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							A
Maximum 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						μ А	
Typical Junction Capacitance at VR=4V f=1M	C _j	28							pF
Maximum Reverse Recovery Time(1)	trr	150 250 500				00	ns		
Typical Thermal Resistance (2)	Reja Rejc	60 18						°C/W	
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ +150						°C	

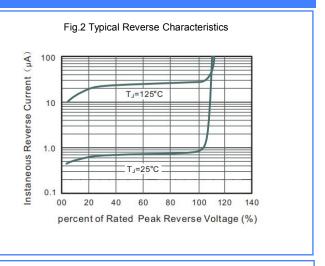
- (1) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A
- (2) .P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

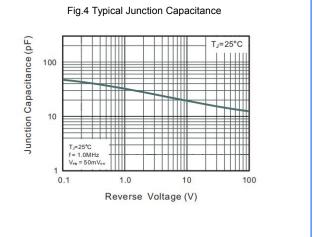
Rating And Characteristic Curves







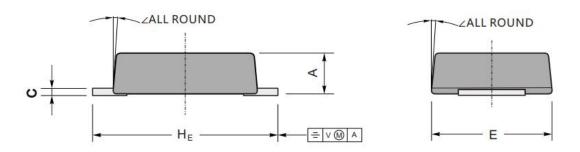


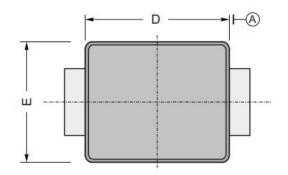


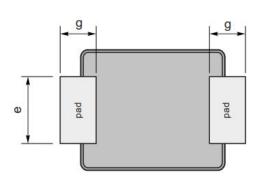
Package Outline

Plastic surface mounted package; 2 leads

SMBF







Top View

Bottom View

UNIT		Α	С	D	Е	е	HE	g	
mm	max	1.3	0.26	4.4	3.7	2.2	5.5	1.0	
	min	1.1	0.18	4.2	3.5	1.9	5.1	1.0	9°
mil	max	51	10	173	146	86	216	40	9
	min	43	7	165	138	75	200	40	

The recommended mounting pad size

