

S2ABF THRU S2MBF

Features

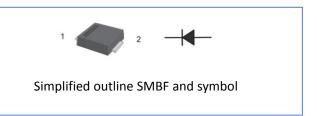
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

Case: SMBF

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

Approx. Weight: 57mg / 0.002oz



Pinning	
PIN	DESCRIPTION

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1	Cathode				
2	Anode				

Absolute Maximum Ratings And Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

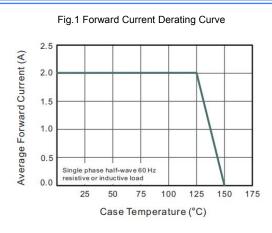
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	S2ABF	S2BBF	S2DBF	S2GBF	S2JBF	S2KBF	S2MBF	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							А
Maximum Forward Voltage at 1 A	V _F	1.1							V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 100						μ A	
Typical Junction Capacitance (1)	C _j	25							pF
Typical Thermal Resistance (2)	Rөја Rөјс	60 18						°C/W	
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150						°C	

- (1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- (2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Rating And Characteristic Curves



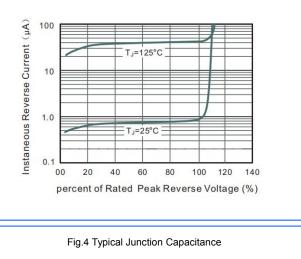
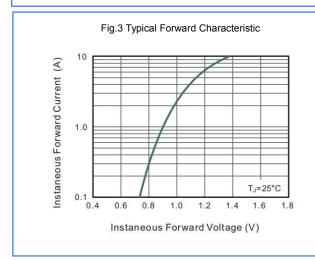
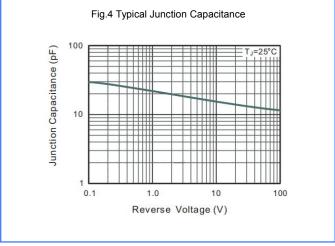
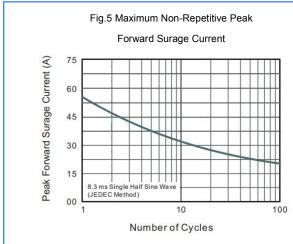


Fig.2 Typical Reverse Characteristics





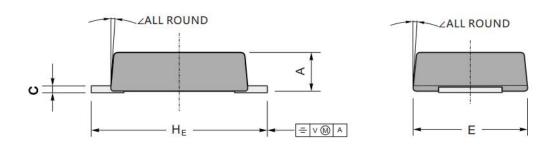


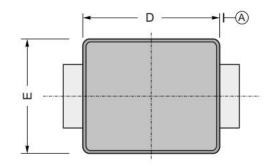


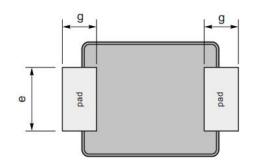
Package Outline

Plastic surface mounted package; 2 leads

SMBF







Top View

Bottom View

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

The recommended mounting pad size

