

Surface Mount General Purpose Silicon 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
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

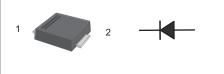
· Case: SMBF

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

• Approx. Weight: 57mg / 0.002oz

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Top View

Marking Code: S2AB-S2MB Simplified outline SMBF and symbol

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

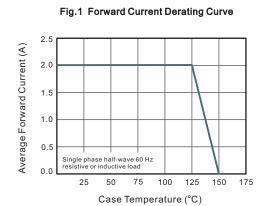
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

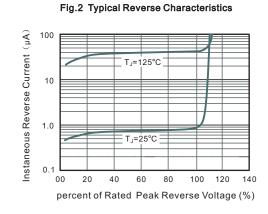
Parameter	Symbols	S2ABF	S2BBF	S2DBF	S2GBF	S2JBF	S2KBF	S2MBF	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at 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}	70						А	
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.1						V	
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	5 100						μA	
Typical Junction Capacitance (1)	C _j	25						pF	
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	

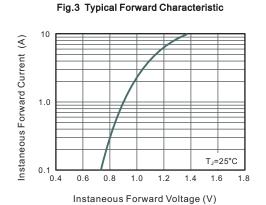
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

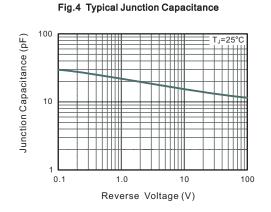
⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

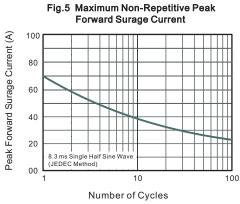










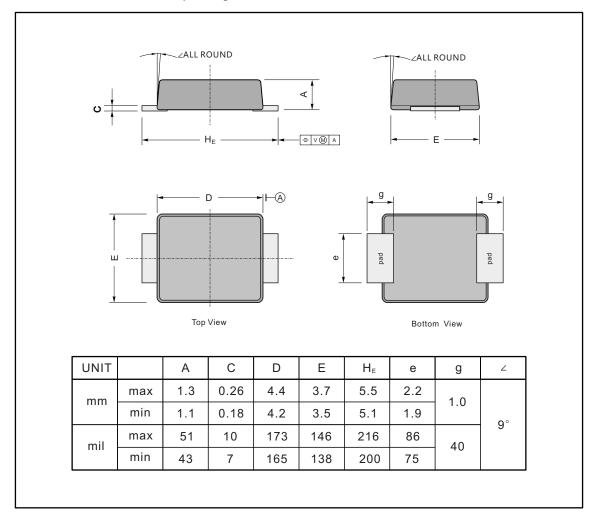




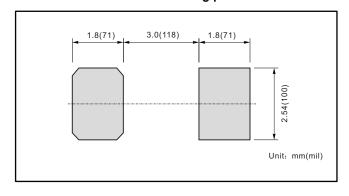
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



The recommended mounting pad size



Marking

Type number	Marking code				
S2ABF	S2AB				
S2BBF	S2BB				
S2DBF	S2DB				
S2GBF	S2GB				
S2JBF	S2JB				
S2KBF	S2KB				
S2MBF	S2MB				