

# Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 50 to 1000 V

Forward Current - 1 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**

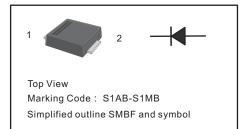
· Case: SMBF

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

• Approx. Weight: 57mg / 0.002oz

#### **PINNING**

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



### **Maximum Ratings and Electrical characteristics**

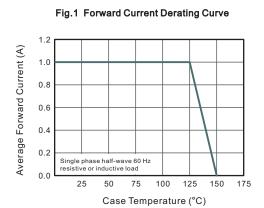
Ratings at 25 °C ambient temperature unless otherwise specified.

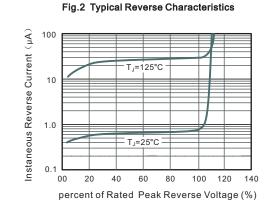
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

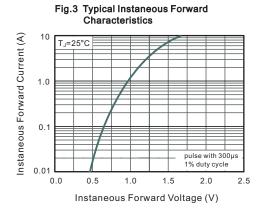
Parameter	Symbols	S1ABF	S1BBF	S1DBF	S1GBF	S1JBF	S1KBF	S1MBF	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_c$ = 125 °C	I <sub>F(AV)</sub>	1						А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	30						А	
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current $T_a = 25  ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125  ^{\circ}\text{C}$	I <sub>R</sub>	5 50						μA	
Typical Junction Capacitance (1)	C <sub>j</sub>	15						pF	
Typical Thermal Resistance (2)	$R_{\theta JA}$	75						°C/W	
Operating and Storage Temperature Range	$T_{j},T_{stg}$	-55 ~ +150						°C	

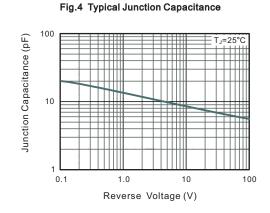
<sup>( 1 )</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C

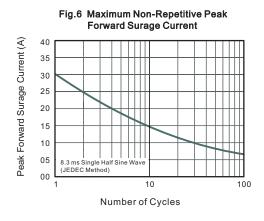
<sup>(</sup> 2 ) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.







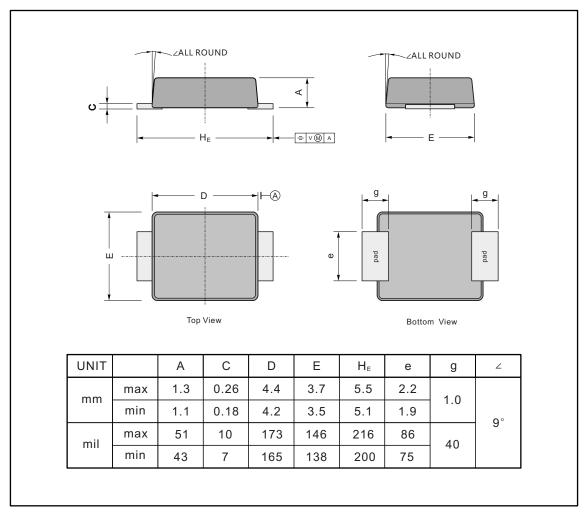




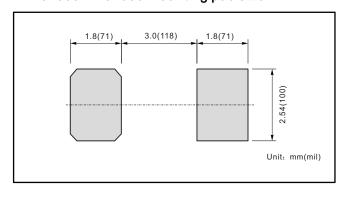
## PACKAGE OUTLINE

# Plastic surface mounted package; 2 leads

### **SMBF**



## The recommended mounting pad size



## Marking

Type number	Marking code				
S1ABF	S1AB				
S1BBF	S1BB				
S1DBF	S1DB				
S1GBF	S1GB				
S1JBF	S1JB				
S1KBF	S1KB				
S1MBF	S1MB				

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