

S2ABF THRU S2MBF

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

Maximum Ratings and Electrical characteristics

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			
	2			
Top View	(
Top View Marking	Code: S2AB-S2MB			

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	\$2BBF	\$2DBF	\$2GBF	\$2JBF	\$2KBF	\$2MBF	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 Ta = 65 °C	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	60							А
Maximum Instantaneous Forward Voltage at 2 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							μA
Typical Junction Capacitance 1>	Cj	30							pF
Typical Thermal Resistance 2>	R _{eja}	55							°C/W
Operating and Storage Temperature Range	Tj, Tsig	-55 ~ +150							°C

 $1\,)$. Measured at 1 MHz and applied reverse voltage of 4 V D.C

 $2\,)$, $\,$ P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.



S2ABF THRU S2MBF

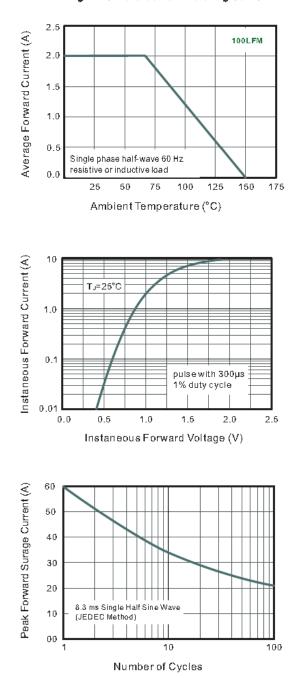
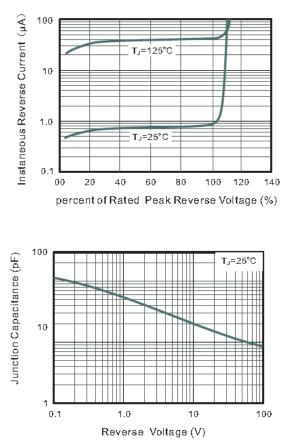


Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics







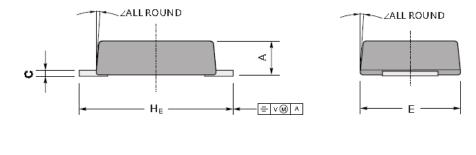
S2ABF THRU S2MBF

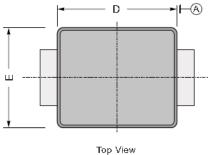
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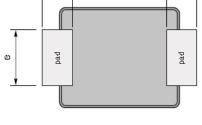
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF





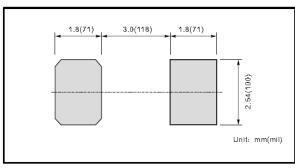


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UNIT		А	С	D	E	Η _ε	е	g	Z
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	- 9°
	min	1.1	0.18	4.2	3.5	5.1	1.9		
mil	max	51	10	173	146	216	86	40	
	min	43	7	165	138	200	75		

The recommended mounting pad size



Marking

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