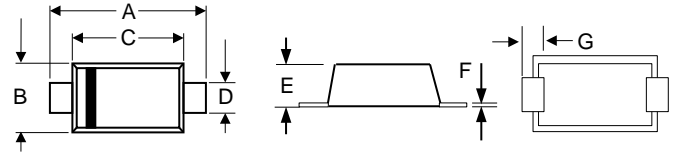


### Features

- \* For surface mounted applications
- \* Low profile package
- \* Glass Passivated Chip Junction
- \* Easy to pick and place
- \* High Temp Soldering: 260°C for 10seconds at Terminals



RoHS  
COMPLIANT



SMBF				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.201	0.217	5.10	5.50
B	0.138	0.146	3.5	3.7
C	0.165	0.173	4.2	4.4
D	0.075	0.087	1.90	2.20
E	0.043	0.051	1.10	1.30
F	0.007	0.010	0.18	0.26
G	0.031	0.047	0.80	1.20

### Mechanical Data

- \* Case: SMBF Molded plastic
- \* Terminals: Solderable per MIL-STD-750, Method 2026
- \* Polarity: Indicated by cathode band

### Maximum Ratings and Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type Number	Symbols	S2ABF	S2BBF	S2DBF	S2GBF	S2JBF	S2KBF	S2MBF	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2							A
Peak Forward Surge Current, 8.3ms single half sine-wave	I <sub>FSM</sub>	70							A
Maximum Instantaneous Forward Voltage at 2.0A	V <sub>F</sub>	1.1							V
Maximum D.C Reverse Current @ T <sub>J</sub> =25°C	I <sub>R</sub>	5							μA
at Rated D.C Blocking Voltage @ T <sub>J</sub> =125°C		100							
Typical Junction Capacitance (Note1)	C <sub>J</sub>	25							pF
Typical Thermal Resistance (Note2)	R <sub>θJA</sub>	60							°C/W
	R <sub>θJC</sub>	18							
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note 1: Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

### Ratings and Characteristic Curves

Fig.1 Forward Current Derating Curve

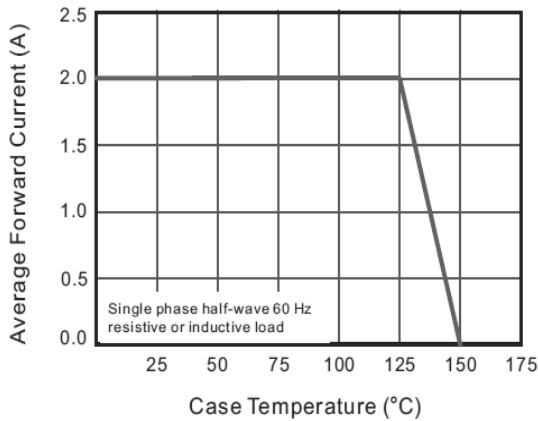


Fig.2 Typical Reverse Characteristics

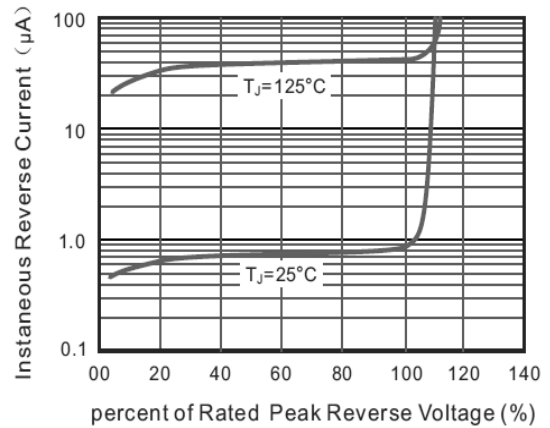


Fig.3 Typical Forward Characteristic

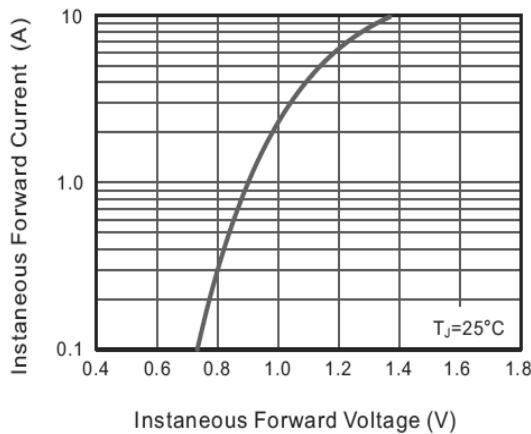


Fig.4 Typical Junction Capacitance

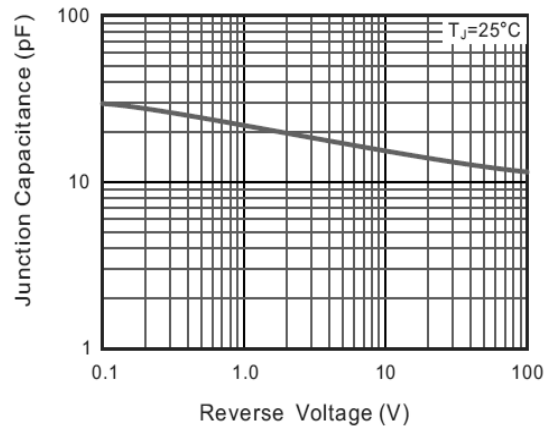
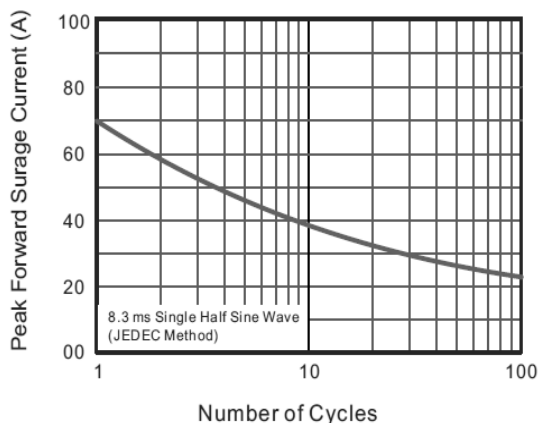


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





## S2ABF THRU S2MBF

*Surface Mount General Purpose Silicon Rectifiers*

### Ordering Information

Part No.	Package	Packing Code	Packing
S2ABF THRU S2MBF	SMBF	R50	5000pcs/Reel

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