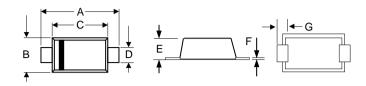


S2ABF THRU S2MBF

Surface Mount General Purpose Silicon Rectifiers

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









SMBF							
DIM.	INC	CHES	MM				
	MIN	MAX	MIN	MAX			
Α	0.201	0.217	5.10	5.50			
В	0.138	0.146	3.5	3.7			
С	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_A=25℃ unless otherwise noted)

Type Number	Symbols	S2ABF	S2BBF	S2DBF	S2GBF	S2JBF	S2KBF	S2MBF	Unit
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 D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2						Α	
Peak Forward Surge Current, 8.3ms single half l _{FSM} 70					Α				
Maximum Instantaneous Forward Voltage at 2.0A	V _F	1.1						V	
Maximum D.C Reverse Current @ T _J =25℃		5							
at Rated D.C Blocking Voltage @ T _J =125℃	I _R	100						μA	
Typical Junction Capacitance (Note1)	CJ	25					pF		
Typical Thermal Resistance (Note2)	RθЈА RθЈС	60 18					°C/W		
Operating Junction Temperature Range	TJ	-55 to +150					$^{\circ}\!\mathbb{C}$		
Storage Temperature Range	T _{STG}	-55 to +150					$^{\circ}\!\mathbb{C}$		

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.

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S2ABF THRU S2MBF

Surface Mount General Purpose Silicon Rectifiers

Ratings and Characteristic Curves

Fig.1 Forward Current Derating Curve

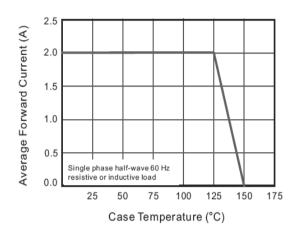


Fig.2 Typical Reverse Characteristics

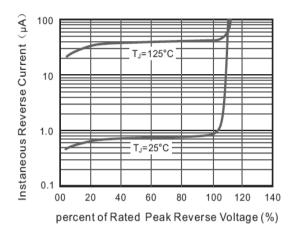


Fig.3 Typical Forward Characteristic

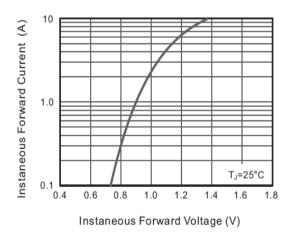


Fig.4 Typical Junction Capacitance

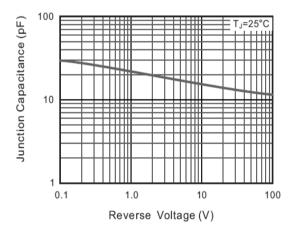
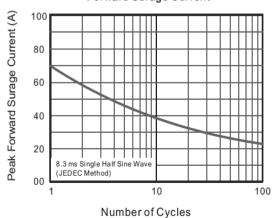


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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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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