

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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S2A THRU S2M 2.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER



Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- This is a Pb Free Device
- . All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: SMB molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: AnyWeight: 0.09 grams

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Type Number	Symbol	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L = 110°C	lo				2.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60			А				
Forward Voltage @ I _F = 2.0 A	V _F				1.10				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}				5.0 200				μA
Reverse Recovery Time(Note1)	t _{rr}				2.5				μS
Typical Junction Capacitance(Note2)	Сл				30				pF
Typical Thermal Resistance Junction to Lead (Note 3)	R _{0JL}	. 16			°C/W				
Operating and Storage Temperature Range	T _J ,T _{STG}			-55	to +150				°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Mounted on P.C.B.with 8.0mm² land areas.
 - China Germany Korea Singapore United States •
 - http://www.smc-diodes.com
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Ratings and Characteristics Curves

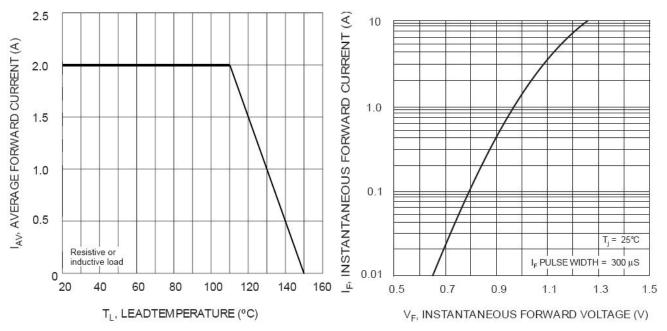
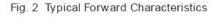
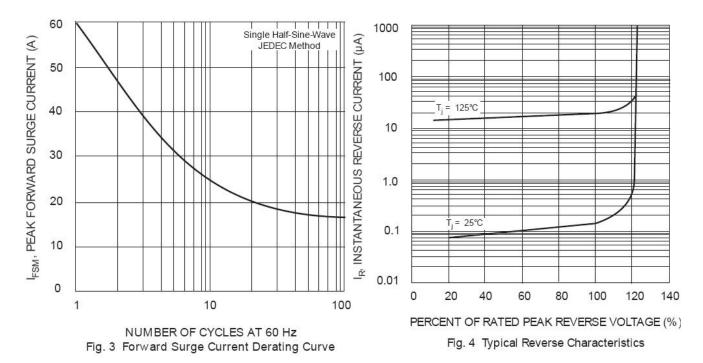


Fig. 1 Forward Current Derating Curve





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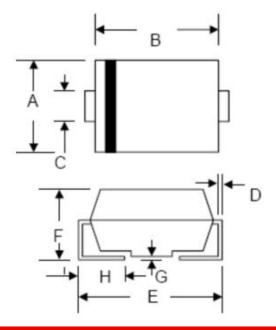
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Mechanical Dimensions SMB



SYMBOL Millimeters		Inches			
STIVIBUL	Min.	Max.	Min.	Max.	
А	3.30	3.94	0.130	0.155	
В	4.06	4.70	0.160	0.185	
С	1.80	2.20	0.071	0.087	
D	0.152	0.305	0.006	0.012	
E	4.80	5.59	0.189	0.220	
F	2.10	2.60	0.083	0.102	
G	0.051	0.203	0.002	0.008	
Н	0.76	1.52	0.030	0.060	

Ordering Information

Device	Package	Shipping		
S2A-S2M	SMB(Pb-Free)	3000pcs / reel		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

 S2A
 = Type Number

 YY
 = Year

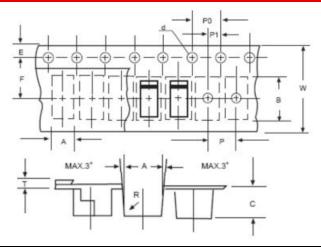
 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Carrier Tape Specification SMB



SYMBOL	Millimeters			
STIVIBUL	Min.	Max.		
Α	3.99	4.19		
В	5.72	5.92		
C	3.23	3.43		
d	1.40	1.60		
E	1.40	1.60		
F	5.60	5.70		
Р	7.90	8.10		
P0	3.90	4.10		
P1	1.90	2.10		
Т	-	0.60		
W	11.80	12.20		

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