

S1A/B - S1M/B

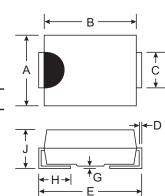
1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 30A Peak
- Ideally Suited for Automated Assembly
- Available in Lead Free Finish/RoHS Compliant Version (Note 3)

Mechanical Data

- Case: SMA/SMB
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Solder Plated Terminal Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please See Ordering Information, Note 5, on Page 2
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number, See Page 2
- Ordering Information: See Page 2
- SMA Weight: 0.064 grams (approximate)
- SMB Weight: 0.093 grams (approximate)



Dim	SN	ΛA	SMB			
	Min	Max	Min	Max		
Α	2.29	2.92	3.30	3.94		
В	4.00	4.60	4.06	4.57		
С	1.27	1.63	1.96	2.21		
D	0.15	0.31	0.15	0.31		
Е	4.80	5.59	5.00	5.59		
G	0.10	0.20	0.10	0.20		
Н	0.76	1.52	0.76	1.52		
J	2.01	2.30	2.00	2.40		
All Dimensions in mm						



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

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

Characteristic	Symbol	S1 A/AB	S1 B/BB	S1 D/DB	S1 G/GB	S1 J/JB	S1 K/KB	S1 M/MB	Unit
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
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _T = 100°	C I _O	1.0				•	Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated loa	d I _{FSM}				30				А
Forward Voltage $@$ I _F = 1.0A		1.1						V	
Peak Reverse Leakage Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 125^{\circ}C$		5.0 100						μA	
Maximum Reverse Recovery Time (Note 4)		2.0					μS		
Typical Total Capacitance (Note	1) C _T				10				ρF
Typical Thermal Resistance, Junction to Terminal (Note 2)		30					°C/W		
Operating and Storage Temperature Range		-65 to +150					°C		

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Terminal, unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pads as heat sink.

3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

4. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.



Ordering Information (Note 5 & 6)

Device*	Packaging	Shipping
S1x-13	SMA	5000/Tape & Reel
S1xB-13	SMB	3000/Tape & Reel

* x = Device type, e.g. S1A-13 (SMA package); S1AB-13 (SMB package).

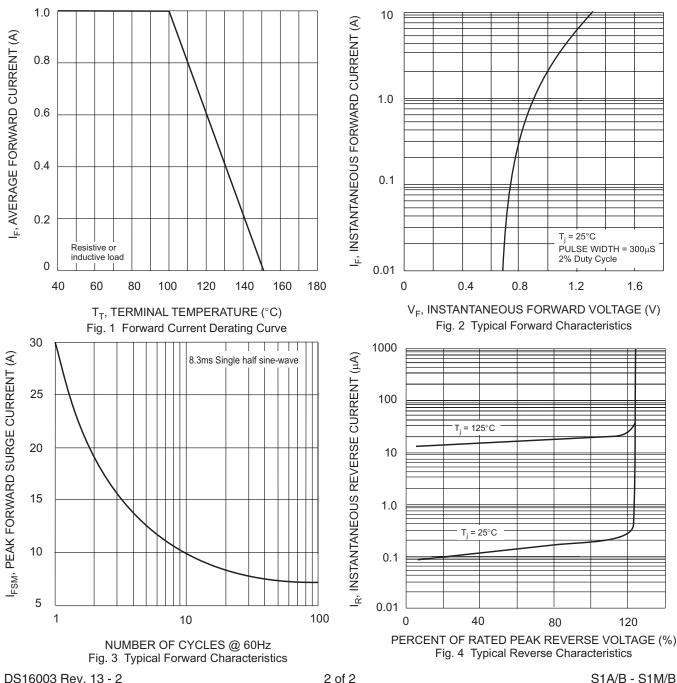
Notes: 5. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

6. For Lead Free Finish/RoHS Compliant version part numbers, please add "-F" suffix to part numbers above. Example: S1A-13-F.

Marking Information



XXX = Product type marking code, ex: S1A (SMA package) XXXX = Product type marking code, ex: S1AB (SMB package) C|| = Manufacturers' code marking YWW = Date code marking Y = Last digit of year ex: 2 for 2002 WW = Week code 01 to 52



DS16003 Rev. 13 - 2

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>>Diodes Incorporated(达迩科技(美台))