

# 2.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE



S2A – S2M

### **Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 60A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-0

# Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

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SMB/DO-214AA				
Dim	Min Max			
Α	3.30	3.94		
В	4.06 4.70			
С	1.91	2.11		
D	0.152	0.305		
Е	5.08	5.59		
F	2.13 2.44			
G	0.051	0.203		
Н	0.76	1.27		
All Dimensions in mm				

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

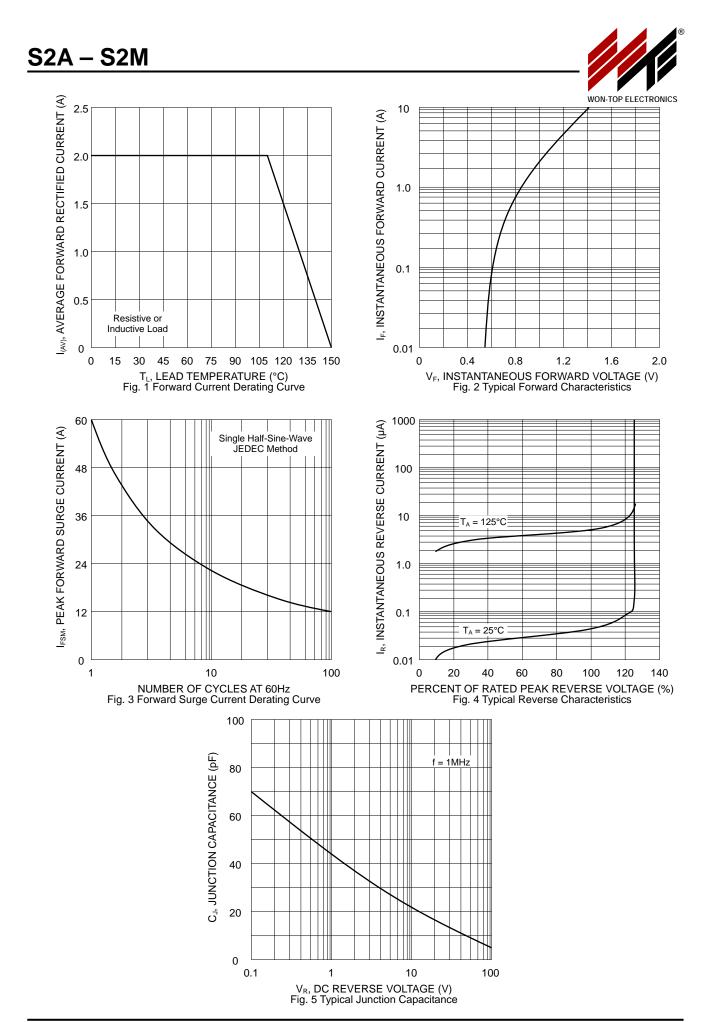
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_L = 110^{\circ}C$	lo	2.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				60				А
Forward Voltage $@I_F = 2.0A$	Vfm	1.1					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Irm	5.0 200					μA		
Typical Junction Capacitance (Note 1)	CJ				30				pF
Typical Thermal Resistance (Note 2) Typical Thermal Resistance (Note 3)	R ja R jl				53 16				°C/W
Operating and Storage Temperature Range	TJ, TSTG			-(	65 to +15	50			°C

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

2. Junction to ambient, device mounted on PCB with 8.0mm x 8.0mm copper pads.

3. Junction to lead, device mounted on PCB with 8.0mm x 8.0mm copper pads.

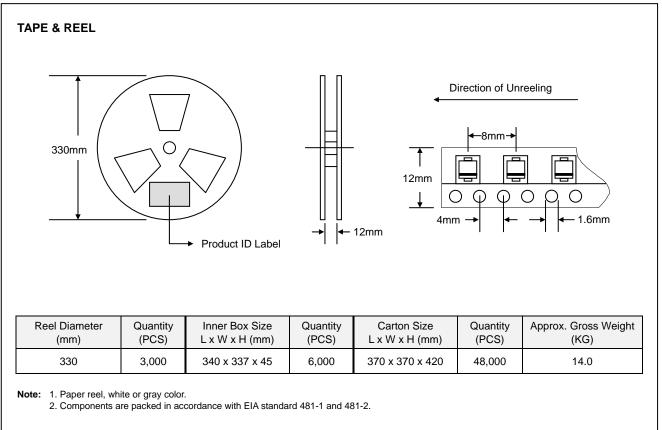


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# MARKING INFORMATIONRECOMMENDED FOOTPRINT(127 MIN)(1.27 MIN)(1.27 MIN)(1.27 MIN)(1.27 MIN)(1.27 MIN)(2.10 MIN)(2.10 MIN)(2.10 MIN)(2.10 MIN)(2.69 MAX)(2.69 MAX)(2.69 MAX)inches(mm)

## PACKAGING INFORMATION





Product No.	Package Type	Shipping Quantity				
S2A-T3	SMB	3000/Tape & Reel				
S2B-T3	SMB	3000/Tape & Reel				
S2D-T3	SMB	3000/Tape & Reel				
S2G-T3	SMB	3000/Tape & Reel				
S2J-T3	SMB	3000/Tape & Reel				
S2K-T3	SMB	3000/Tape & Reel				
S2M-T3	SMB	3000/Tape & Reel				

### **ORDERING INFORMATION**

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, S2A-T3-LF.

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