

3.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE



S3A – S3M

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

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SMC/DO-214AB						
Dim	Min	Max				
Α	5.59	6.22				
В	6.60	7.11				
С	2.75	3.25				
D	0.152	0.305				
ш	7.75	8.13				
F	2.00	2.62				
G	0.051	0.203				
Н	0.76	1.52				
All Dimensions in mm						

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

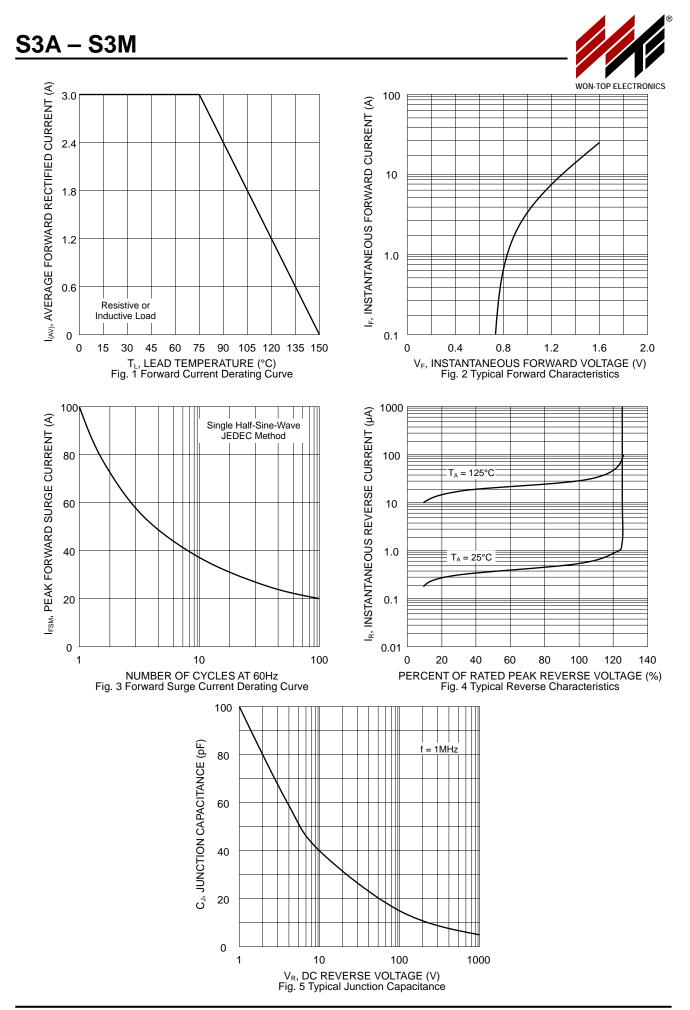
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	S3A	S3B	S3D	S3G	S3J	S3K	S3M	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 $@T_L = 75^{\circ}C$	lo	3.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				100				A
Forward Voltage $@I_F = 3.0A$	Vfm	1.15					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм				10 250				μA
Typical Junction Capacitance (Note 1)	CJ				60				pF
Typical Thermal Resistance (Note 2) Typical Thermal Resistance (Note 3)	R JA R JL				47 13				°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.

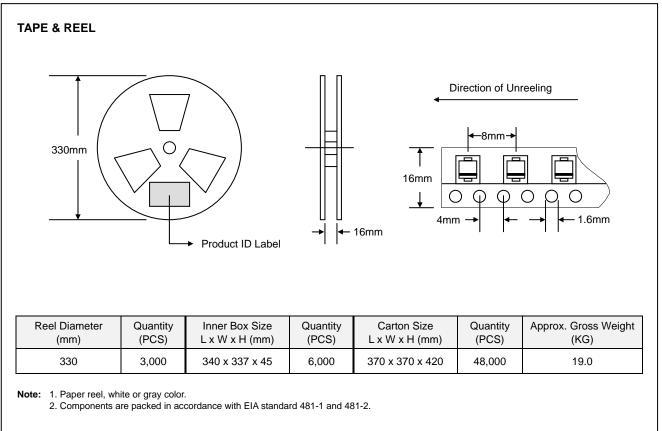
3. Junction to lead, device mounted on PCB with 8.0mm x 8.0mm copper pads.





MARKING INFORMATIONRECOMMENDED FOOTPRINT(1)

PACKAGING INFORMATION





Product No.	Package Type	Shipping Quantity				
S3A-T3	SMC	3000/Tape & Reel				
S3B-T3	SMC	3000/Tape & Reel				
S3D-T3	SMC	3000/Tape & Reel				
S3G-T3	SMC	3000/Tape & Reel				
S3J-T3	SMC	3000/Tape & Reel				
S3K-T3	SMC	3000/Tape & Reel				
S3M-T3	SMC	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, S3A-T3-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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