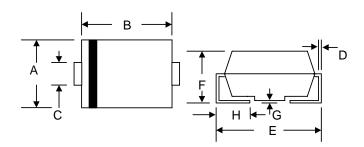


3.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

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-O



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

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			
Е	7.75	8.13			
F	2.00	2.62			
G	0.051	0.203			
Н	0.76	1.27			
All Dimensions in mm					

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

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	٧
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current	@T _L = 75°C	lo	3.0				Α			
Non-Repetitive Peak Forward Surg 8.3ms Single half sine-wave super rated load (JEDEC Method)		İFSM	100				А			
Forward Voltage	@I _F = 3.0A	Vғм	1.20				V			
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	IRM	5.0 250				μΑ			
Reverse Recovery Time (Note 1)		trr				2.5				μS
Typical Junction Capacitance (Note	e 2)	Cj				60				pF
Typical Thermal Resistance (Note	3)	R_{θ} JL				13				°C/W
Operating and Storage Temperatur	e Range	Tj, TSTG			-	65 to +15	0			°C

Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A,

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.

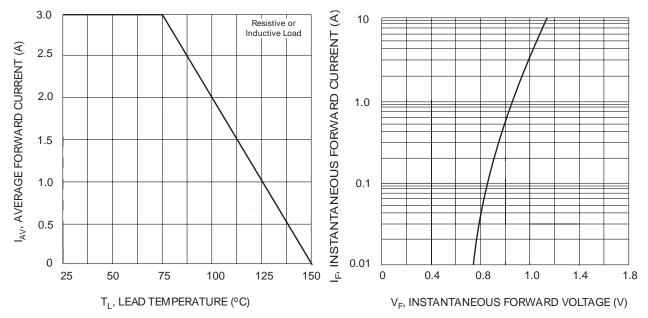
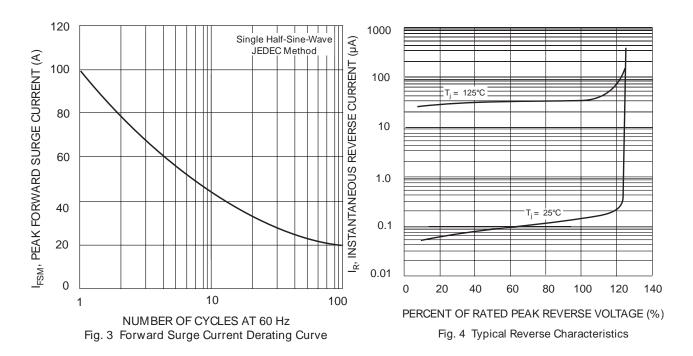


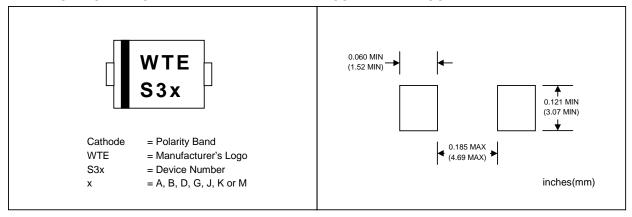
Fig. 1 Forward Current Derating Curve

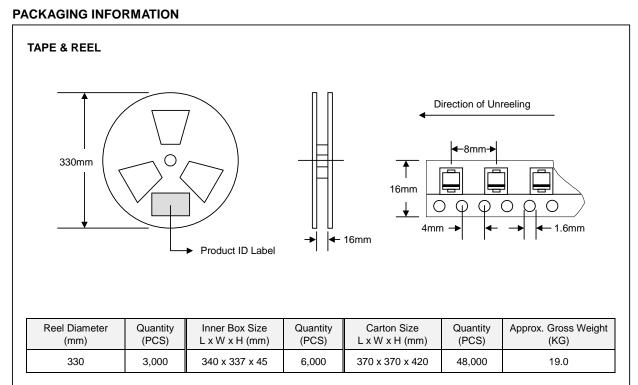
Fig. 2 Typical Forward Characteristics



MARKING INFORMATION

RECOMMENDED FOOTPRINT





Note: 1. Paper reel, white or gray color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING 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

- 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.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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