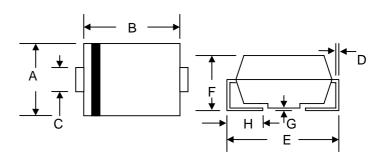


## 5.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

#### **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

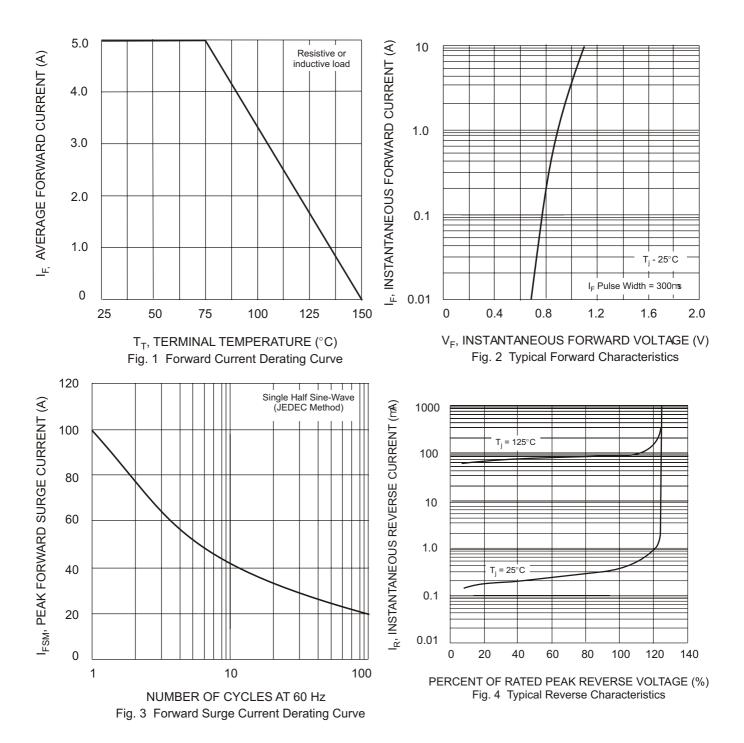
SMC/DO-214AB					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60	7.11			
С	2.75	3.25			
D	0.152	0.305			
Е	7.75	8.13			
F	2.00	2.62			
G	0.051	0.203			
Н	0.76	1.27			
All Dimensions in mm					

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

Characteristic		Symbol	S5A	S5B	S5D	S5G	S5J	S5K	S5M	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	٧
Average Rectified Output Current @T <sub>L</sub> = 75°C		lo	5.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	100						А	
Forward Voltage @I	<sub>F</sub> = 5.0A	VFM				1.15				V
		lгм	10 250						μΑ	
Typical Junction Capacitance (Note 1)		Cj	40						pF	
Typical Thermal Resistance (Note 2)		$R_{\theta}$ JL	10						°C/W	
Operating and Storage Temperature Range		Tj, TSTG			-1	65 to +15	0			°C

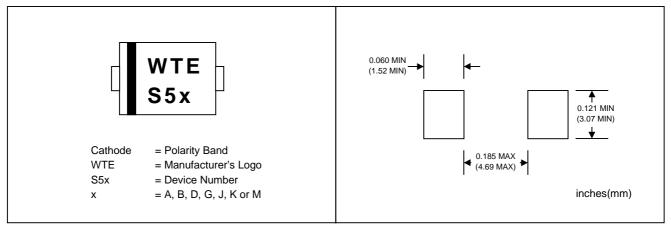
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2. Mounted on P.C. Board with 8.0mm<sup>2</sup> land area.

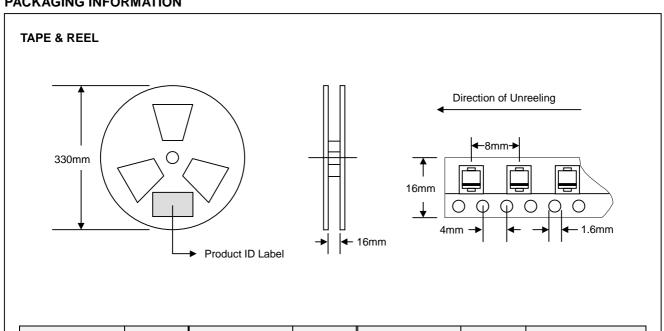


## **MARKING INFORMATION**

## **RECOMMENDED FOOTPRINT**



#### **PACKAGING INFORMATION**



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	19.0

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
S5A-T3	SMC	3000/Tape & Reel
S5B-T3	SMC	3000/Tape & Reel
S5D-T3	SMC	3000/Tape & Reel
S5G-T3	SMC	3000/Tape & Reel
S5J-T3	SMC	3000/Tape & Reel
S5K-T3	SMC	3000/Tape & Reel
S5M-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, S5A-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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