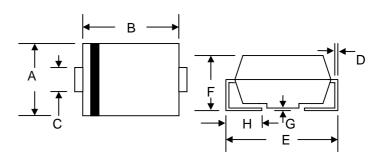


3.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

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: 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

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_A=25°C unless otherwise specified

Characteristic		Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	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	lo	3.0						Α		
Non-Repetitive Peak Forward Sur 8.3ms Single half sine-wave superated load (JEDEC Method)	•	IFSM	100				А			
Forward Voltage	VFM	1.20						V		
Peak Reverse Current At Rated DC Blocking Voltage	IRM	5.0 250						μΑ		
Reverse Recovery Time (Note 1)		trr	2.5						μS	
Typical Junction Capacitance (Note 2)		Cj	60						pF	
Typical Thermal Resistance (Note 3)		R_{θ} JL	13						°C/W	
Operating and Storage Temperature Range		Тj, Tsтg			-	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.

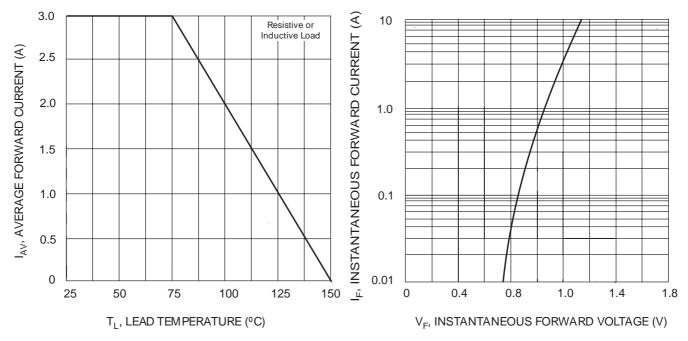
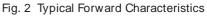
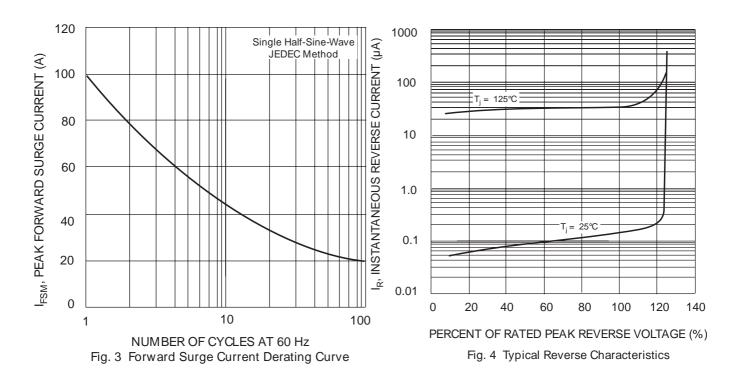


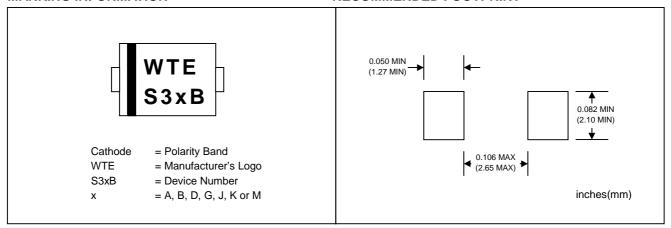
Fig. 1 Forward Current Derating Curve

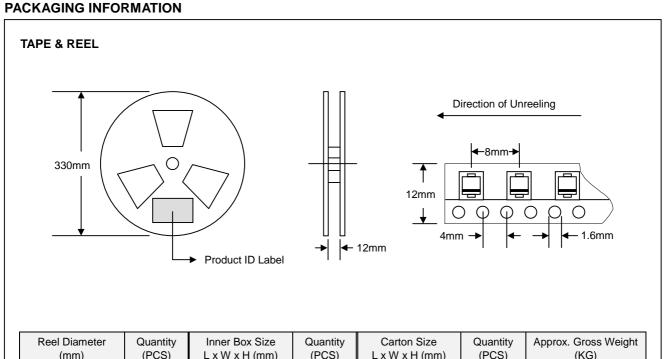




MARKING INFORMATION

RECOMMENDED FOOTPRINT





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	14.0

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
S3AB-T3	SMB	3000/Tape & Reel
S3BB-T3	SMB	3000/Tape & Reel
S3DB-T3	SMB	3000/Tape & Reel
S3GB-T3	SMB	3000/Tape & Reel
S3JB-T3	SMB	3000/Tape & Reel
S3KB-T3	SMB	3000/Tape & Reel
S3MB-T3	SMB	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, S3AB-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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