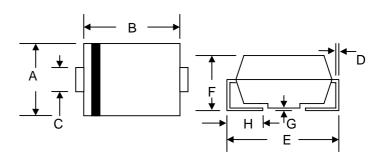


# 1.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

#### **Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A 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

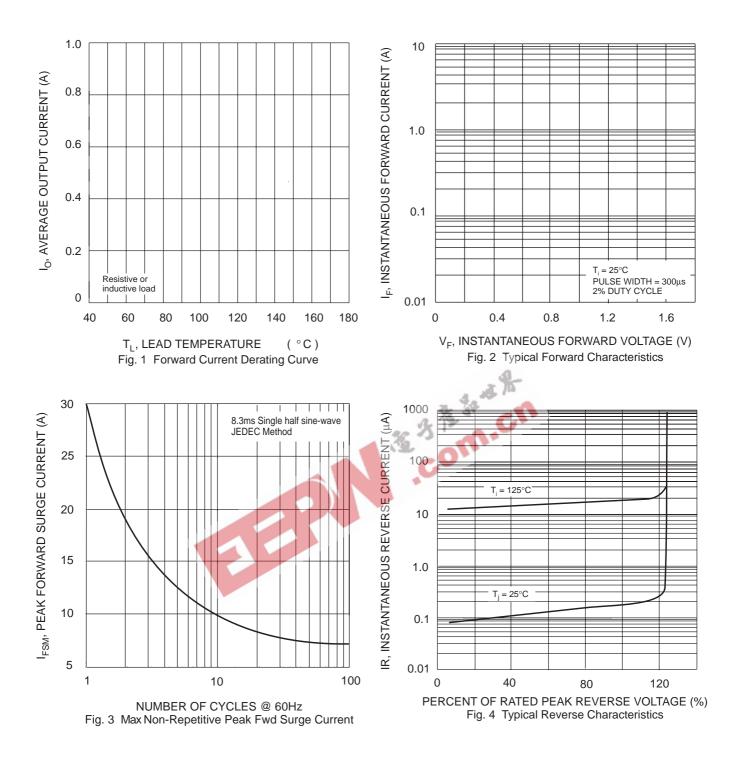
SMB/DO-214AA						
Dim	Min	Max				
Α	3.30	3.94				
В	4.06	4.70				
С	1.91	2.11				
D	0.152	0.305				
E 🐠	5.08	5.59				
, 55 P	2.13	2.44				
G	0.051	0.203				
н С	0.76	1.27				
All Dimensions in mm						

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

Characteristic	Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	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> = 100°C	lo	1.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			А				
Forward Voltage @I <sub>F</sub> = 1.0A	VFM	1.10				V			
	IRM	5.0 200						μΑ	
Reverse Recovery Time (Note 1)	trr	2.5						μS	
Typical Junction Capacitance (Note 2)	Cj	15						pF	
Typical Thermal Resistance (Note 3)	RθJL	30						°C/W	
Operating and Storage Temperature Range	Tj, TSTG	-65 to +175						°C	

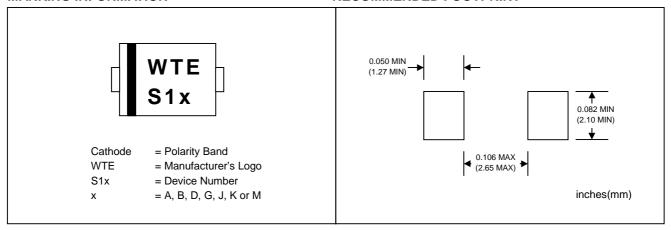
Note: 1. Measured with  $I_F$  = 0.5A,  $I_R$  = 1.0A,  $I_{rr}$  = 0.25A,

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

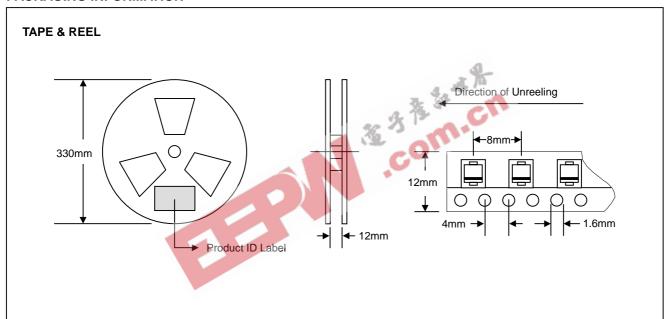


# **MARKING INFORMATION**

# 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	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
S1A-T3	SMB	3000/Tape & Reel
S1B-T3	SMB	3000/Tape & Reel
S1D-T3	SMB	3000/Tape & Reel
S1G-T3	SMB	3000/Tape & Reel
S1J-T3	SMB	3000/Tape & Reel
S1K-T3	SMB	3000/Tape & Reel
S1M-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, S1A-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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We power your everyday.