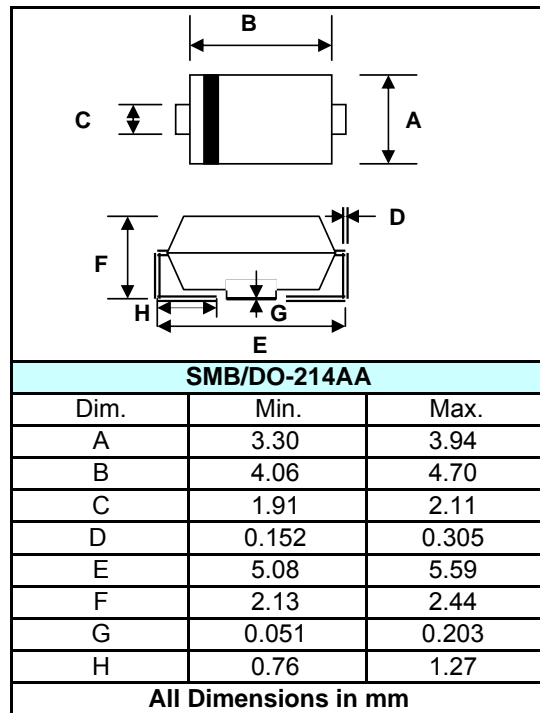


**FEATURE**

- ◆ 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**

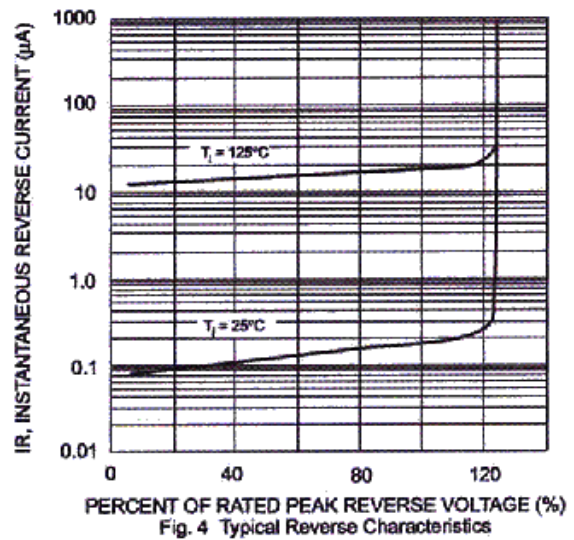
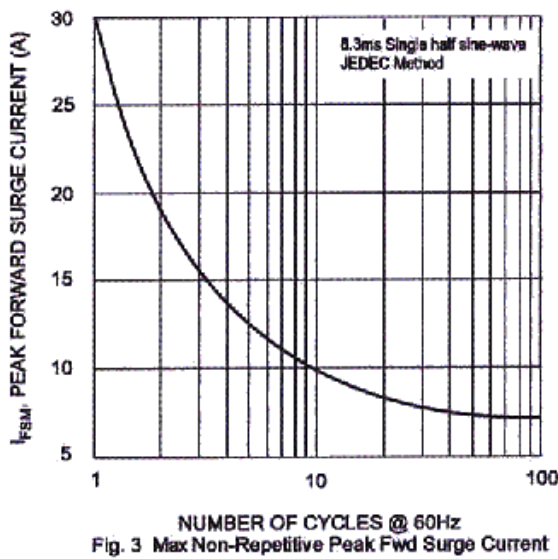
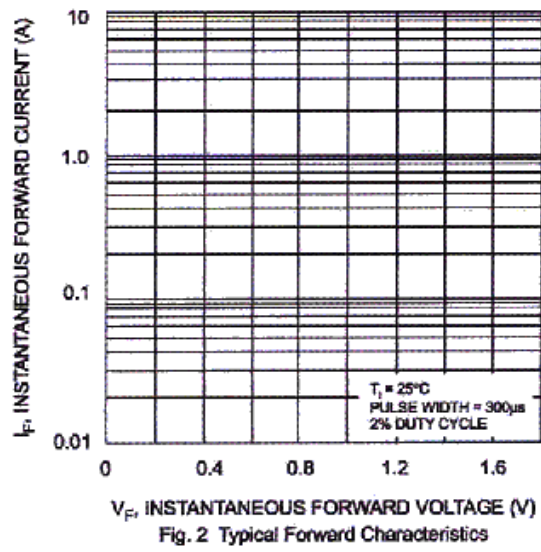
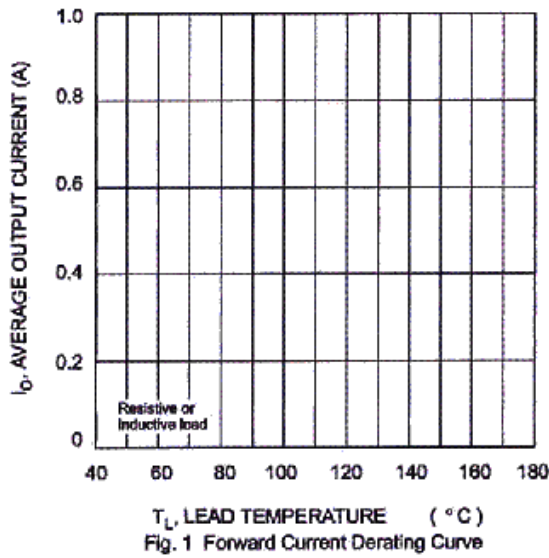
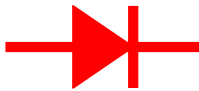
- ◆ Case: SMB/DO-214AA, Molded Plastic.
- ◆ Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Cathode Band or Cathode Notch
- ◆ Marking: Type Number
- ◆ Weight: 0.093 grams (approx)\_
- ◆ Lead Free: For RoHS / Lead free Version, Add "LF" suffix to part Number, See page 3.

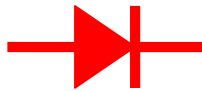


**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS @TA = 25°C unless otherwise specified**

Characteristic	Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Unit
Peak Repetitive Reverse Voltage	VRRM								
Working Peak Reverse Voltage	VRWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VR								
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @TL=100°C	IO	1.0							A
Non-Repetitive Peak Forward Surtge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							A
Forward Voltage @IF=2.0A	VFM	1.10							V
Peak Reverse Current @TA=25°C	IRM	5.0							uA
At Rated DC Blocking Voltage @TA=125°C		200							
Reverse Recovery Time (Note 1)	Trr	2.5							uS
Typical Junction Capacitance ( Note 2)	Ci	15							pF
Typical Thermal Resistance ( Note 3)	ReJL	30							°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150							°C

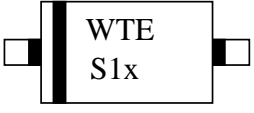
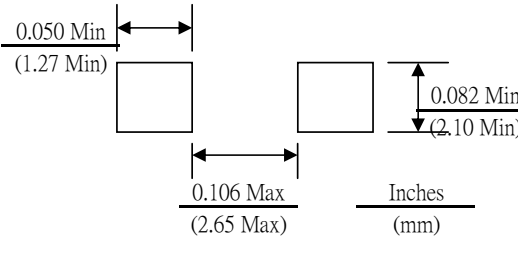
- Note:**
- 1). Measured with IF = 0.5A, IR=1.0A, Irr = 0.25A
  - 2). Measured at 1.0MHz and applied reverse voltage of 4.0V DC
  - 3). Mounted on P.C. Board with 8.0mm² land area.



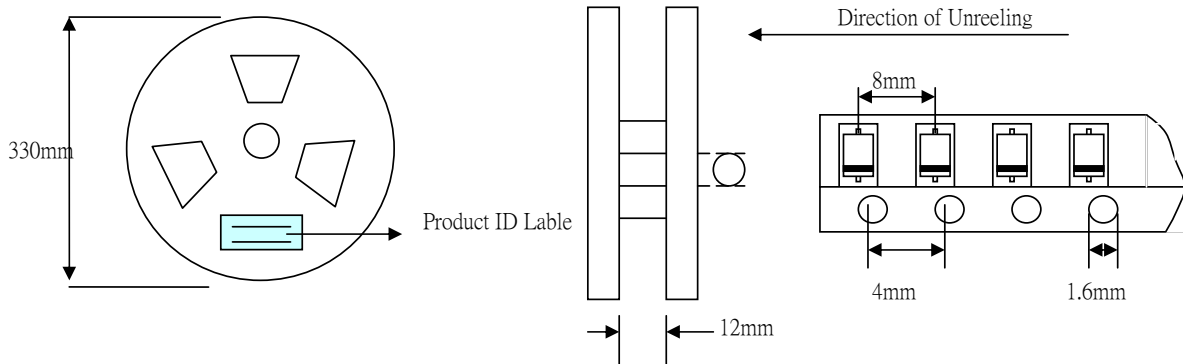


**MARKING INFORMATION**

**RECOMMENDED FOOTPRINT**

 <p>Cathode = Polarity Band  WTE = Manufacture Logo  S1x = Device Code, See Page 2  X = A,B,D,G,J,K or M (50V ~ 1KV)</p>	 <p style="text-align: center;">Inches (mm)</p>
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**MARKING INFORMATION**



Reel Diameter (mm)	Quantity (PCS)	Inner box Size LxWxH (mm)	Quantity (PCS)	Carton Size LxWxH (mm)	Quantity (PCS)	Approx Gross Weight (KG)
330	3000	340x337x45	6000	370x370x420	48000	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
S1T-T3	SMB	3000/Tape & Reel
S1M-T3	SMB	3000/Tape & Reel

- 1). Shipping quantity given in minimum packing quantity only, for minimum order quantity, please consult the Sales Department.  
2). To order RoHS /Lead Free version ( with Lead Free finish), add "LF" suffix to part number above, for example, S1A-T3-LF.