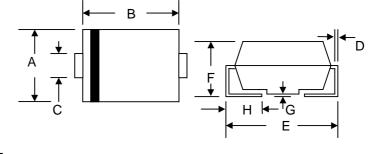




# **1.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE**

## 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: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

SMA/DO-214AC				
Dim	Min Max			
Α	2.50	2.90		
В	4.00	4.60		
С	1.20	1.60		
D	0.152	0.305		
ш	4.80	5.28		
F	2.00	2.44		
G	0.051	0.203		
Н	0.76	1.52		
All Dimensions in mm				

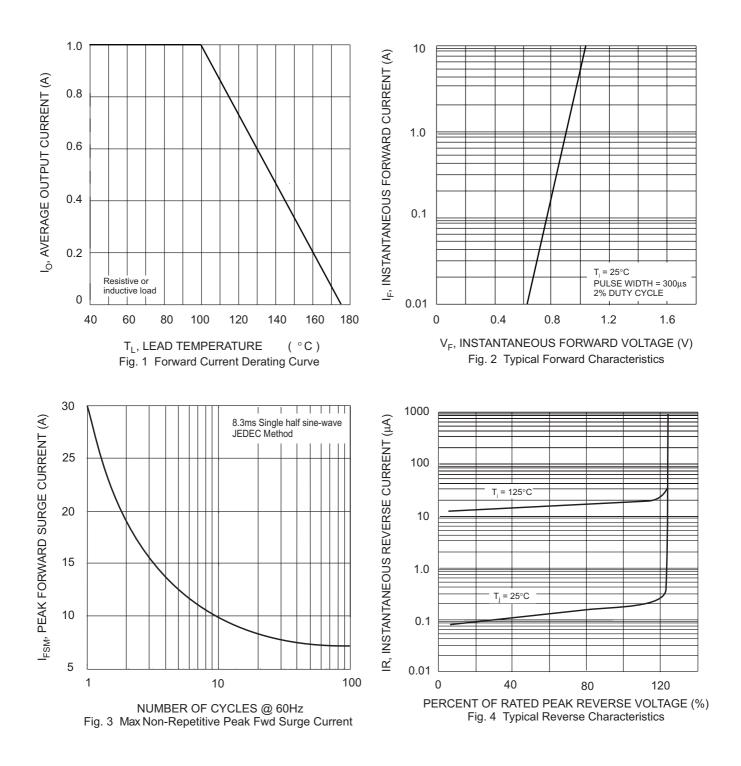
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

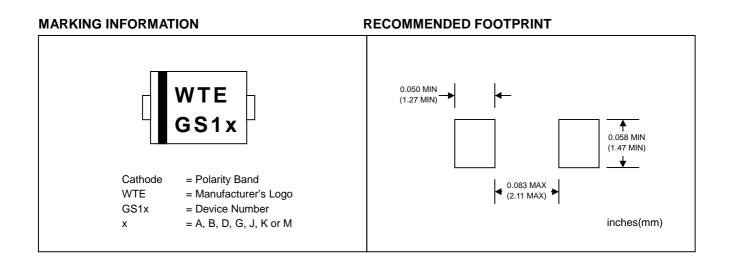
Characteristic	Symbol	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_L = 100^{\circ}C$	ю				1.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30				A			
Forward Voltage $@I_F = 1.0A$	Vfm				1.10				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм	5.0 200					μA		
Reverse Recovery Time (Note 1)	trr				2.5				μS
Typical Junction Capacitance (Note 2)	Cj				15				pF
Typical Thermal Resistance (Note 3)	R∉JL				30				°C/W
Operating and Storage Temperature Range	Tj, TSTG			-	65 to +17	5			°C

Note: 1. Measured with  $I_{\text{F}}$  = 0.5A,  $I_{\text{R}}$  = 1.0A,  $I_{\text{rr}}$  = 0.25A,

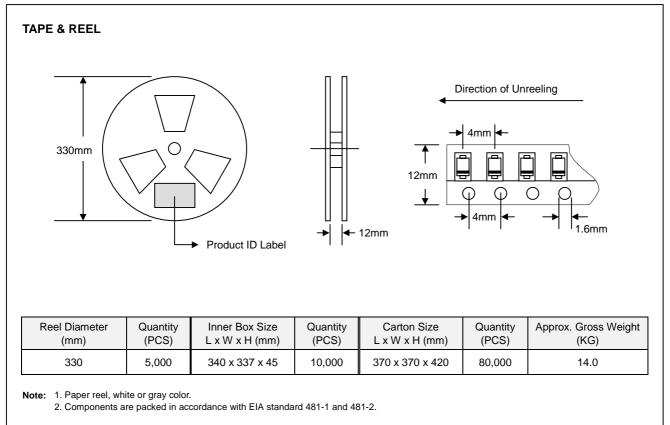
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with  $8.0 \text{mm}^2$  land area.





## PACKAGING INFORMATION



<b>ORDERING INFORMATION</b>	
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Product No.	Package Type	Shipping Quantity
GS1A-T3	SMA	5000/Tape & Reel
GS1B-T3	SMA	5000/Tape & Reel
GS1D-T3	SMA	5000/Tape & Reel
GS1G-T3	SMA	5000/Tape & Reel
GS1J-T3	SMA	5000/Tape & Reel
GS1K-T3	SMA	5000/Tape & Reel
GS1M-T3	SMA	5000/Tape & Reel

1. Shipping quantity given is for 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, GS1A-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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