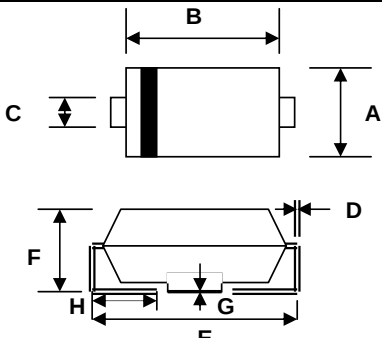


**FEATURE**

- ◆ 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: 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.
A	2.50	2.90
B	4.00	4.60
C	1.20	1.60
D	0.152	0.305
E	4.80	5.28
F	2.00	2.44
G	0.051	0.203
H	0.76	1.52
All Dimensions in mm		

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

Characteristic	Symbol	GS1A	GS1B	GS1D	GS1C	GS1J	GS1K	GS1M	Unit
Peak Repetitive Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	VRWM								
DC Blocking Voltage	VR								
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L =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 @I _F =2.0A	VFM	1.10							V
Peak Reverse Current @TA=25°C	IRM	5.0							μA
At Rated DC Blocking Voltage @TA=125°C		200							
Reverse Recovery Time (Note 1)	T _{rr}	2.5							μS
Typical Junction Capacitance (Note 2)	C _j	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 1.0MHz and applied reverse voltage of 4.0V DC
3). Mounted on P.C. Board with 8.0mm² land area.

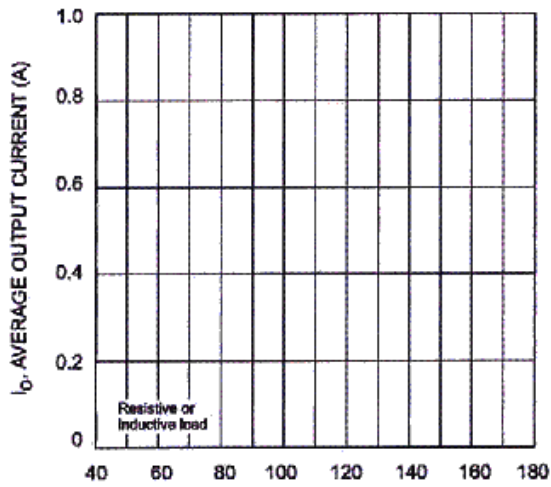
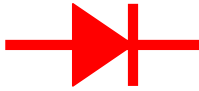


Fig. 1 Forward Current Derating Curve

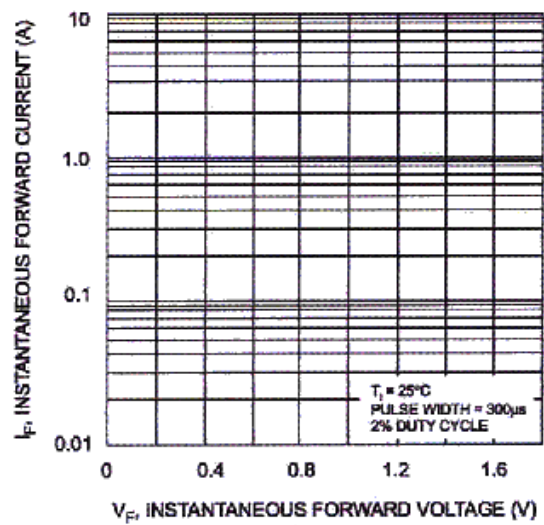


Fig. 2 Typical Forward Characteristics

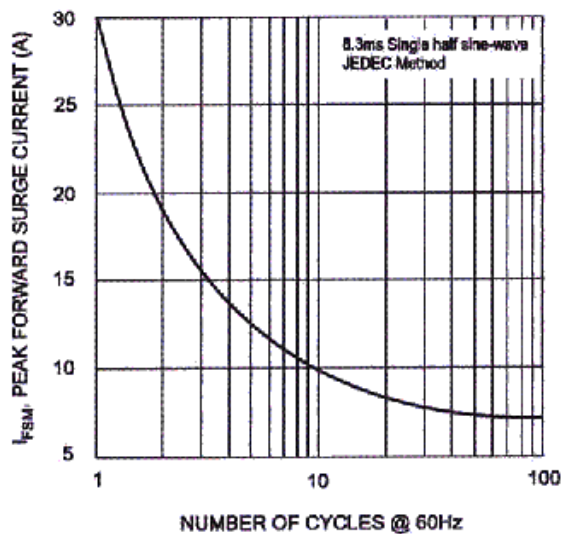


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

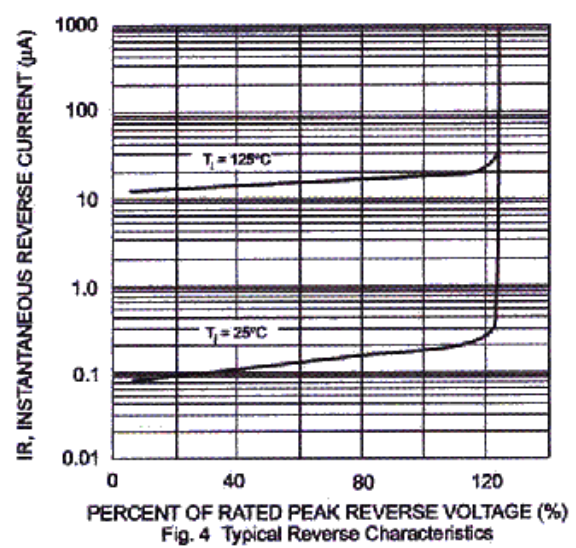
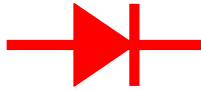


Fig. 4 Typical Reverse Characteristics

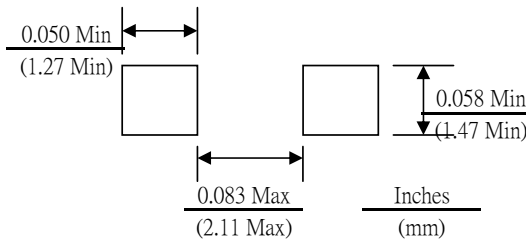


GS1A ~ GS1M



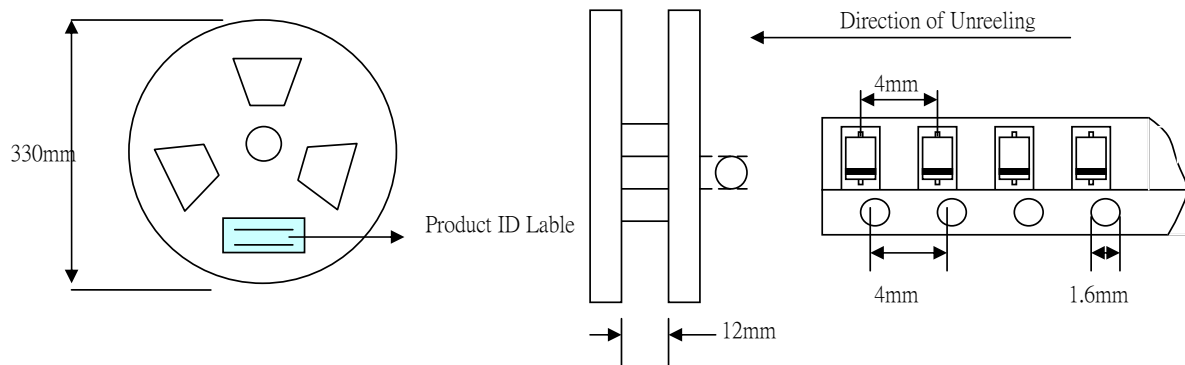
1.0A Surface Mount Glass Passivated Standard Diode

MARKING INFORMATION

 Cathode = Polarity Band WTE = Manufacture Logo GS1x = Device Number X = A,B,D,G,J,K or M	 0.050 Min (1.27 Min) 0.083 Max (2.11 Max) 0.058 Min (1.47 Min) Inches (mm)
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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	5,000	340x337x45	10,000	370x370x420	80,000	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
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
GS1T-T3	SMA	5000/Tape & Reel
GS1M-T3	SMA	5000/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, GS1A-T3-LF.