

GS1000FL - GS1010FL

1.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

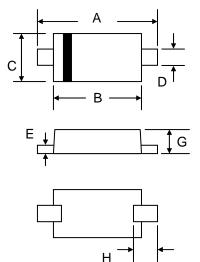


Features

- Low Profile 1.08mm Max. Case Height
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Ideally Suited for Automatic Assembly
- Plastic Material UL Recognition Flammability Classification 94V-0

Mechanical Data

- Case: SOD-123FL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.017 grams (approx.)
- Marking: Device Code, See Page 3
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



SOD-123FL						
Dim	Min Max					
Α	3.30	3.70				
В	2.60	2.95				
С	1.65	1.95				
D	0.75	1.35				
Е	0.10	0.20				
G	0.98	1.08				
н	0.50	0.80				
All Dimensions in mm						

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

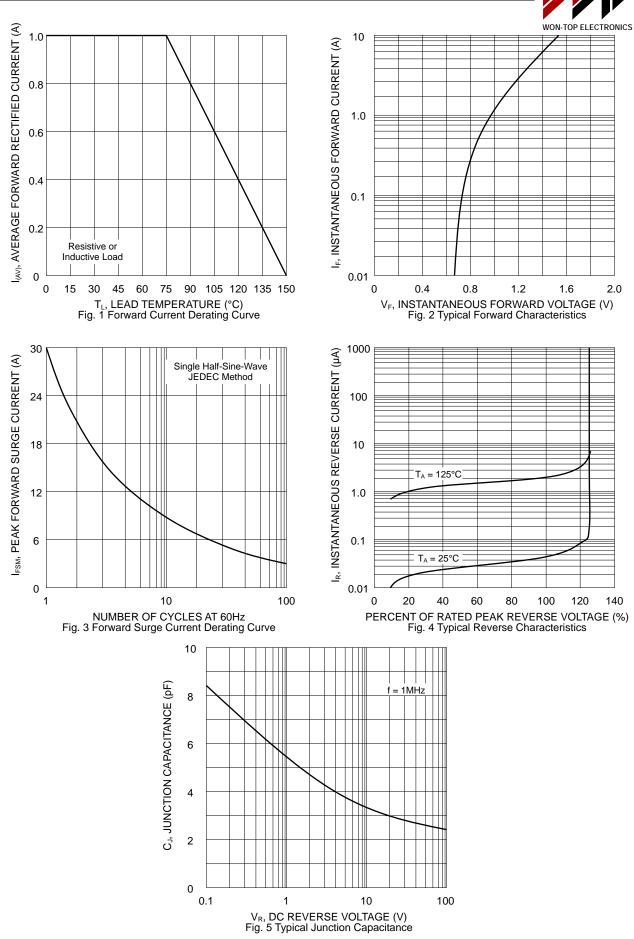
Characteristic	Symbol	GS 1000FL	GS 1001FL	GS 1002FL	GS 1004FL	GS 1006FL	GS 1008FL	GS 1010FL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_L = 75^{\circ}C$	lo	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	1.0 50						μA	
Typical Junction Capacitance (Note 1)	Сл				4.0				pF
Thermal Resistance Junction to Ambient (Note 2) Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 2) Thermal Resistance Junction to Lead (Note 3)	R JA R JA R JL R JL				325 82 26 21				°C/W
Operating and Storage Temperature Range	TJ, TSTG			-	55 to +15	0			°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2. Mounted on FR-4 P.C. Board with minimum recommended pad size.

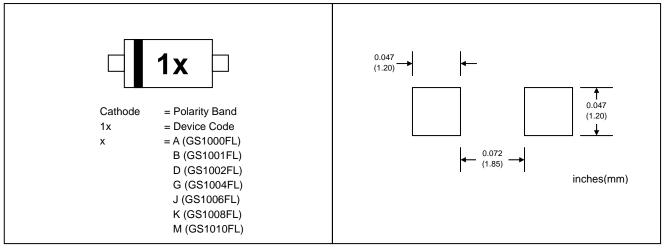
3. Mounted on FR-4 P.C. Board with 700mm² copper pads.

<u>GS1000FL – GS1010FL</u>



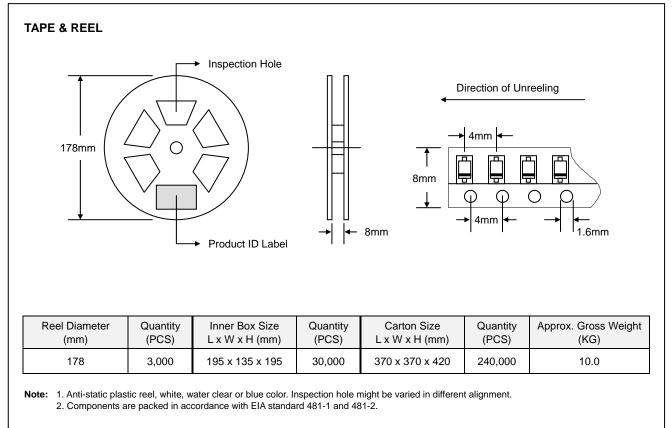


MARKING INFORMATION



RECOMMENDED FOOTPRINT

PACKAGING INFORMATION





Product No.	Package Type	Shipping Quantity
GS1000FL-T1	SDO-123FL	3000/Tape & Reel
GS1001FL-T1	SDO-123FL	3000/Tape & Reel
GS1002FL-T1	SDO-123FL	3000/Tape & Reel
GS1004FL-T1	SDO-123FL	3000/Tape & Reel
GS1006FL-T1	SDO-123FL	3000/Tape & Reel
GS1008FL-T1	SDO-123FL	3000/Tape & Reel
GS1010FL-T1	SDO-123FL	3000/Tape & Reel

ORDERING INFORMATION

1. 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, GS1000FL-T1-LF.

WON-TOP ELECTRONICS and *we are registered trademarks of Won-Top Electronics Co., Ltd (WTE). 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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

