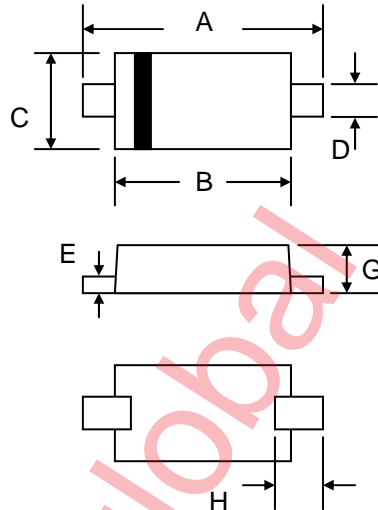


Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material – UL Recognition Flammability Classification 94V-O



SOD-123FL		
Dim	Min	Max
A	3.30	3.70
B	2.60	2.95
C	1.65	1.95
D	0.75	1.35
E	0.10	0.20
G	0.98	1.08
H	0.50	0.80
All Dimensions in mm		

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: SS1020FL G2 SS1030FL G3
SS1040FL G4 SS1060FL G6
SS10100FL G10
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

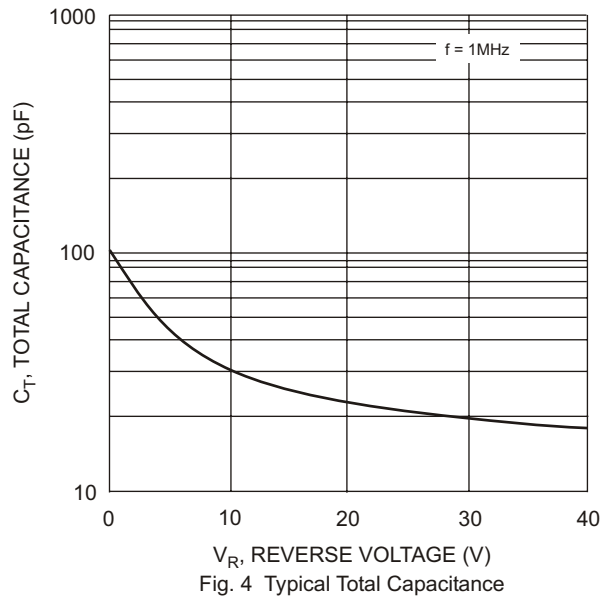
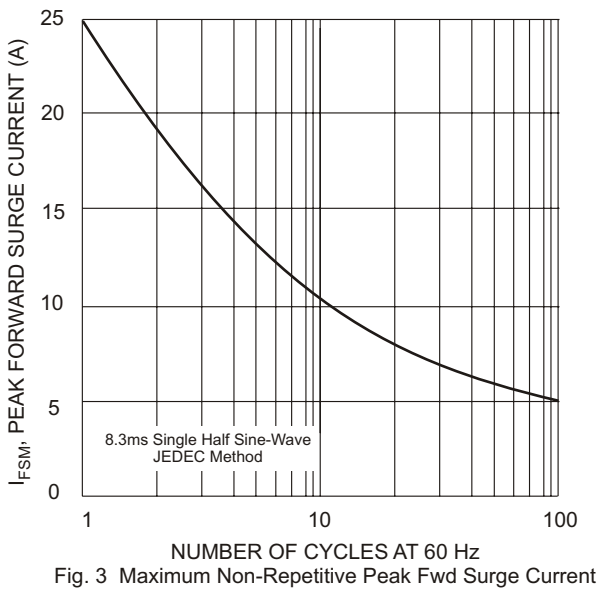
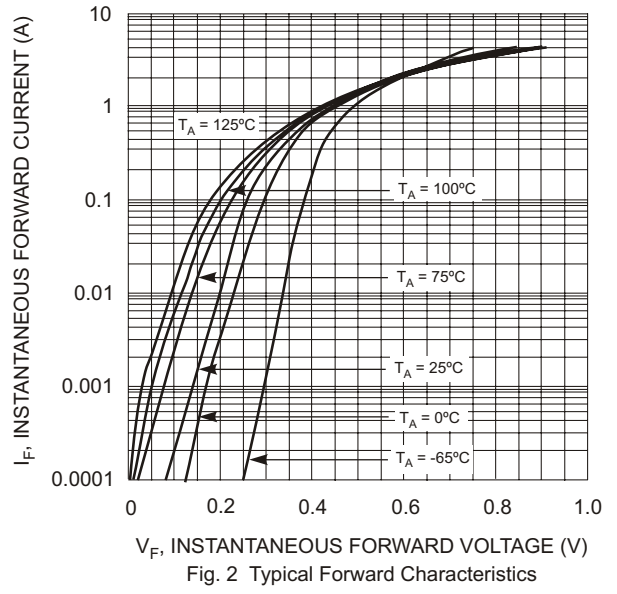
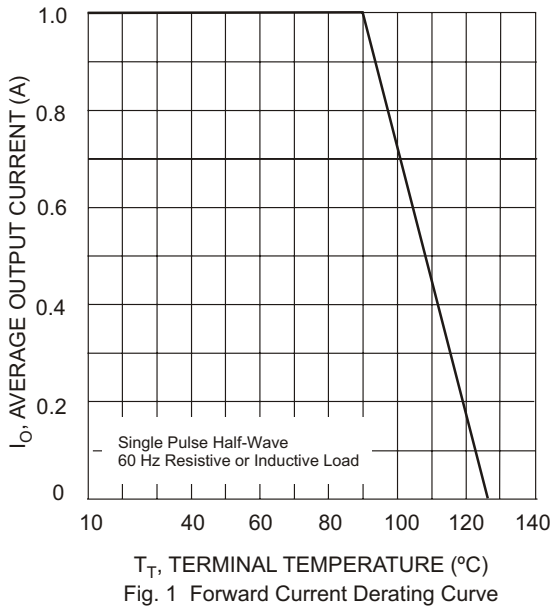
Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	60	100	V
Working Peak Reverse Voltage	V_{RWM}						
DC Blocking Voltage	V_R						
Forward Continuous Current (Note 1)	I_F	1.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	25					A
Thermal Resistance, Junction to Ambient (Note 1)	R_{JA}	85					$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +125					$^\circ\text{C}$

Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit
Forward Voltage Drop @ $I_F = 1.0\text{A}$	V_{FM}	0.52	0.55		0.70	0.85	V
Peak Reverse Leakage Current @ V_{RRM}	I_{RM}	100					μA
Typical Junction Capacitance (Note 2)	C_j	50					pF

Note: 1. Mounted on FR-4 PCB with 645mm^2 pad size.
2. Measured at 1.0MHz and applied reverse voltage of 4V D.C.

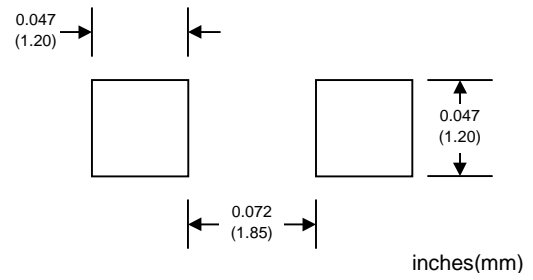


MARKING INFORMATION



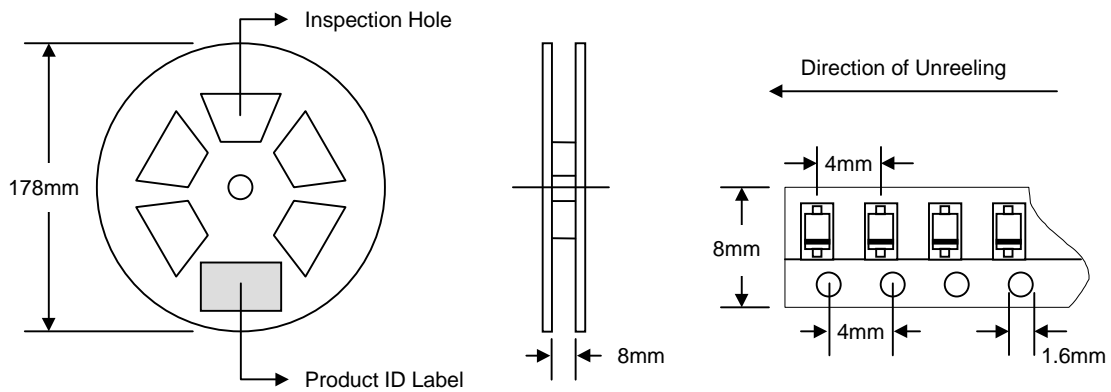
Cathode = Polarity Band
 Gx = Device Code
 x = 2 (SS1020FL)
 3 (SS1030FL)
 4 (SS1040FL)
 6 (SS1060FL)
 10 (SS10100FL)

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



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)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.
 2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SS1020FL-T1	SOD-123FL	3000/Tape & Reel
SS1030FL-T1	SOD-123FL	3000/Tape & Reel
SS1040FL-T1	SOD-123FL	3000/Tape & Reel
SS1060FL-T1	SOD-123FL	3000/Tape & Reel
SS10100FL-T1	SOD-123FL	3000/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, SS1020FL-T1-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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