

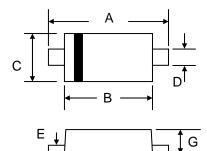
SS0520FL - SS05100FL

0.5A SURFACE MOUNT SCHOTTKY BARRIER DIODE



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-0



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				
E	0.10	0.20				
G	0.98	1.08				
Н	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 (appro-

• 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

Characteristic	Symbol	SS0520FL	SS0530FL	SS0540FL	SS0560FL	SS05100FL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	60	100	V
Forward Continuous Current (Note 1)	lF	0.5					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	5.5					Α
Thermal Resistance, Junction to Lead (Note 2) Thermal Resistance, Junction to Ambient (Note 1)	R JL R JA	150 206					°C/W
Operating Temperature Range	TJ	-55 to +125					°C
Storage Temperature Range	Тѕтс	-55 to +150					°C

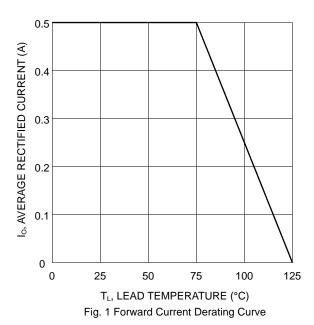
$\textbf{Electrical Characteristics} \ @\textit{T}_{\texttt{A}} = 25 \text{°C unless otherwise specified}$

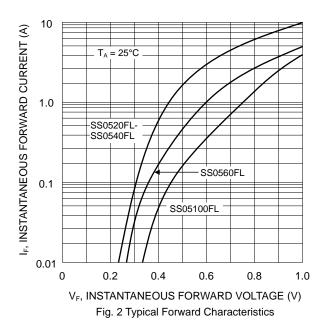
Characteristic	Symbol	SS0520FL	SS0530FL	SS0540FL	SS0560FL	SS05100FL	Unit
Maximum Forward Voltage Drop @ IF = 0.5A	VFM	0.52			0.66	0.83	V
Peak Reverse Leakage Current @ VRRM	lгм	500					μΑ
Typical Junction Capacitance (Note 3)	Cı		100		70	50	pF

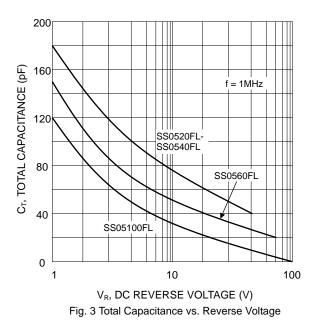
Note: 1. Mounted on FR-4 PCB with 645mm² pad size.

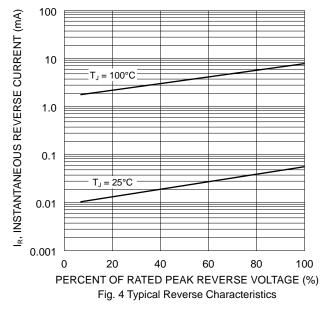
- 2. Mounted on FR-4 PCB with minimum recommended pad size.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.







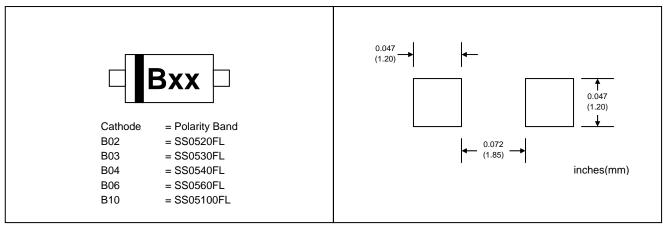






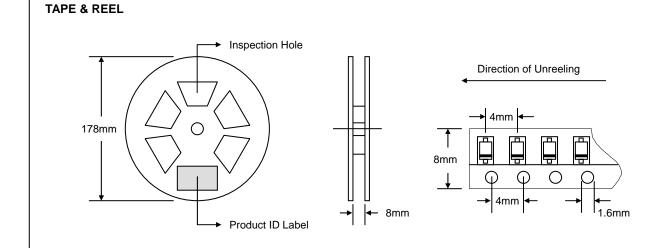
MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION





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	195 x 135 x 195	30,000	370 x 370 x 420	240,000	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
SS0520FL-T1	SOD-123FL	3000/Tape & Reel
SS0530FL-T1	SOD-123FL	3000/Tape & Reel
SS0540FL-T1	SOD-123FL	3000/Tape & Reel
SS0560FL-T1	SOD-123FL	3000/Tape & Reel
SS05100FL-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.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" 2. suffix to part number above. For example, SS0520FL-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.

Won-Top Electronics Co., Ltd. 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

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