

SS0520 - SS0540

0.5A LOW V_F SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Very Low Forward Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0

Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)
- Marking: Device Code, See Page 3
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	SS0520	SS0530	SS0540	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	V
Forward Continuous Current (Note 1) @ TL = 90°C	lF	0.5		А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	5.5		А	
Thermal Resistance, Junction to Lead (Note 2) Thermal Resistance, Junction to Ambient (Note 1)	R JL R JA	150 206		118 206	°C/W
Operating Temperature Range	TJ	-65 to +125		°C	
brage Temperature Range TsTG -65 to +150			°C		

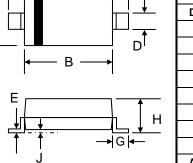
C

Electrical Characteristics @T_A=25°C unless otherwise specified

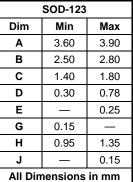
Characteristic		Symbol	SS0520	SS0530	SS0540	Unit
Maximum Forward Voltage Drop	@ IF = 0.1A @ IF = 0.5A @ IF = 1.0A	Vfm	0.300 0.385 —	0.375 0.430 —	 0.510 0.620	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _J = 25°C @T _J = 100°C	Iгм	250 8.0	130 5.0	20 13	μA mA

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

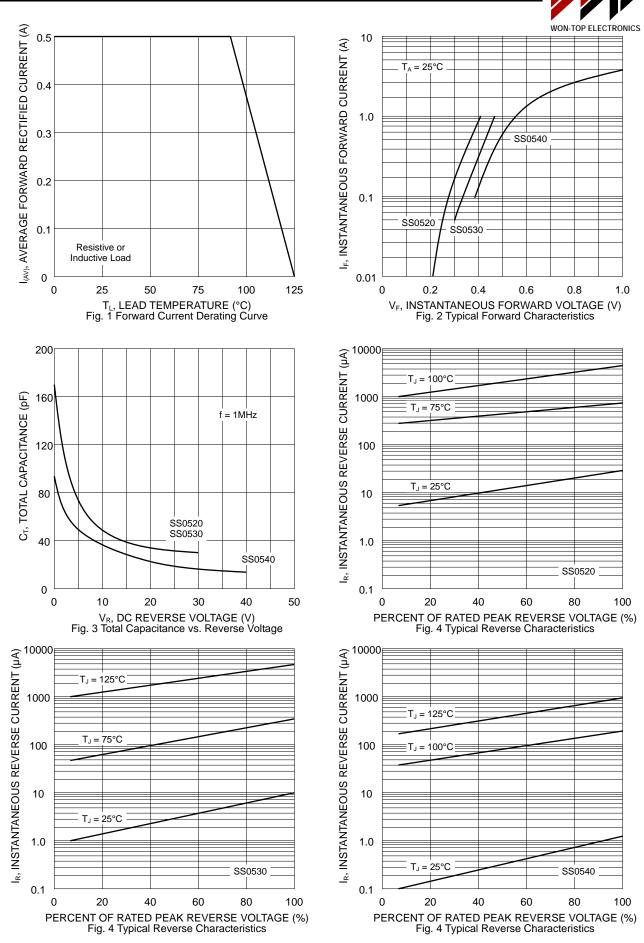
2. Mounted on FR-4 PCB with minimum recommended pad size.



А



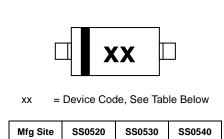
SS0520 - SS0540



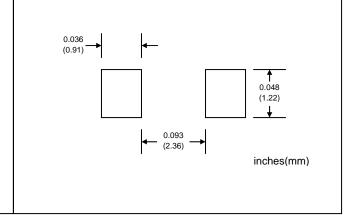
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MARKING INFORMATION

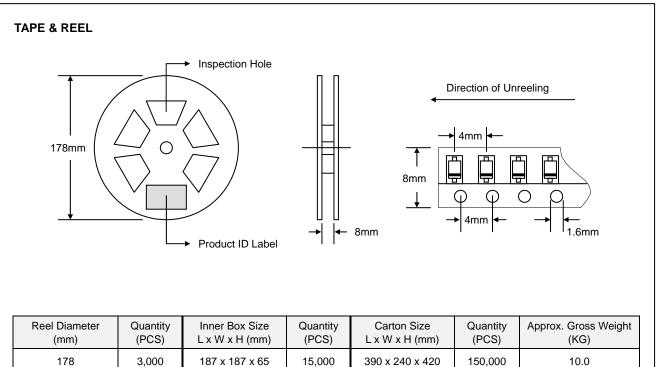


Mfg Site SS0520 SS0530 SS0540 TW Plant B2 B3 B4 CN Plant SD SE SF



RECOMMENDED FOOTPRINT

PACKAGING INFORMATION



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		
SS0520-T1	SOD-123	3000/Tape & Reel		
SS0530-T1	SOD-123	3000/Tape & Reel		
SS0540-T1	SOD-123	3000/Tape & Reel		

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" 1.

2. suffix to part number above. For example, SS0520-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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