

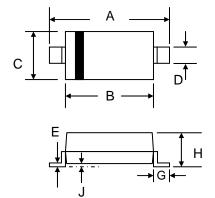
SS0520 - SS0540 Rohs



SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Very Low Forward 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-123					
Dim	Min	Max			
Α	3.6	3.9			
В	2.5	2.8			
С	1.4	1.8			
D	0.5	0.7			
E		0.2			
G	0.4				
Н	0.95	1.35			
J	_	0.12			
All Dimensions in mm					

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

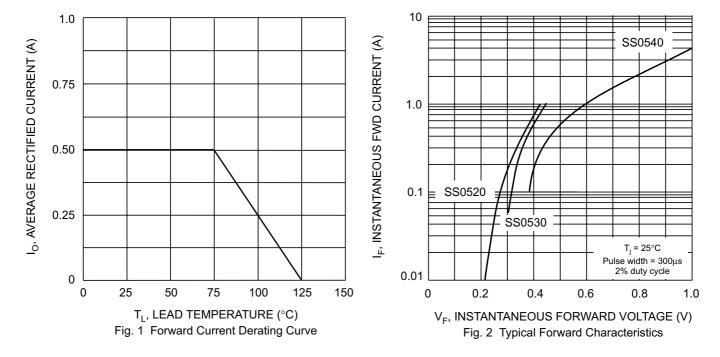
Maximum Ratings @TA=25°C unless otherwise specified

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)	lF		500		mA
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 Ambient (Note 1)	R JA	206		°C/W	
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +125			°C

Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	SS0520	SS0530	SS0540	Unit
Forward Voltage Drop	@IF = 0.1A / 0.5A	VFM	0.3 / 0.385	0.375 / 0.43	— / 0.51	V
Peak Reverse Leakage Current @VR = 50% / 100% DC Blocking Voltage		Ікм	75 / 250	20 / 130	10 / 20	μΑ
Typical Junction Capacitance (VR = 0V DC, f = 1MHz)		Cj	170			pF

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



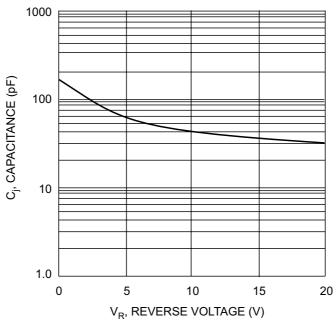
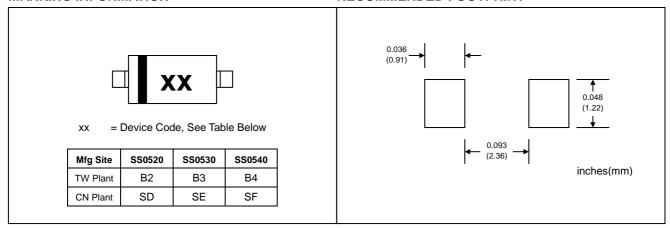
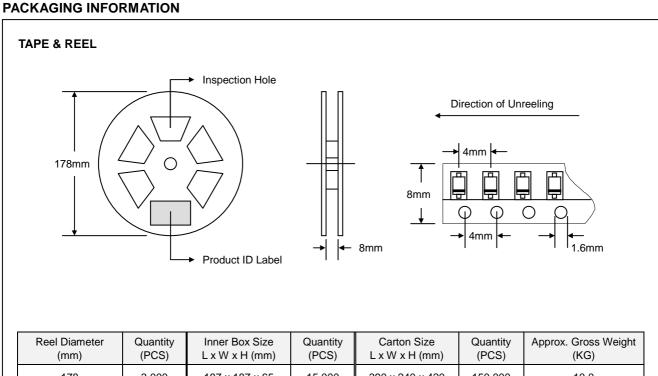


Fig. 3 Typ. Junction Capacitance vs Reverse Voltage

MARKING INFORMATION

RECOMMENDED FOOTPRINT





Reel Diameter	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
(mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
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		
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" 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, 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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