

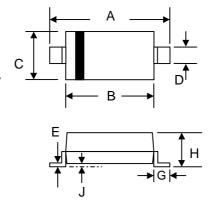
SS0520 - SS0540 Rohs



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-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		
Е	_	0.2		
G	0.4	_		
Н	0.95	1.35		
J	_	0.12		
All Dimensions in mm				

Mechanical Data

Marking:

Case: SOD-123, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.01 grams (approx.)

SS0520 B2 SS0530 B3

SS0540 B4

Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

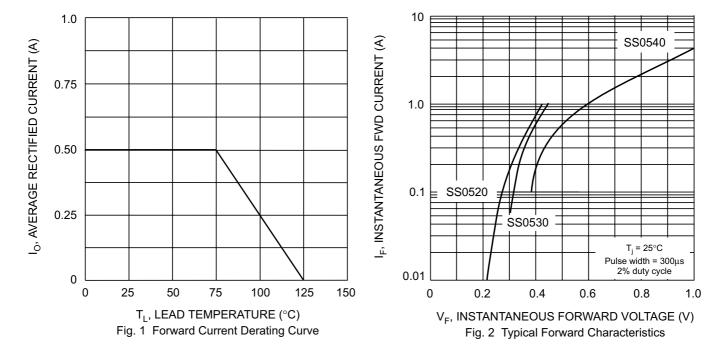
Maximum Ratings @T_A=25°C unless otherwise specified

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)	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
Power Dissipation (Note 1)	Pd	410			mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	al Thermal Resistance, Junction to Ambient Air (Note 1) R θ JA 244			°C/W	
Operating and Storage Temperature Range	ge Temperature Range Tj, TsTG -65 to +125			°C	

Electrical Characteristics @T_A=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	٧
Peak Reverse Leakage Current @VR = 50% / 100% DC Blocking Voltage		lкм	75 / 250	20 / 130	10 / 20	μΑ
Typical Junction Capacitance (VR = 0V DC, f = 1MHz)		Cj		170		pF

Note: 1. Valid provided that terminals are kept at ambient temperature.



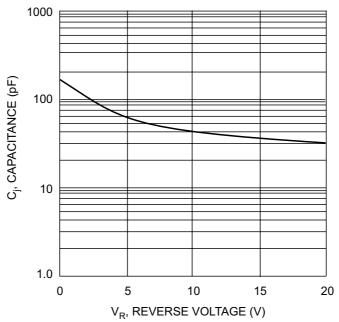
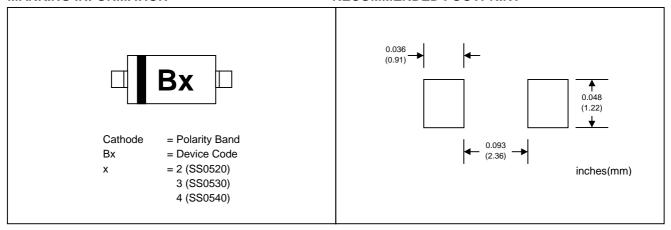


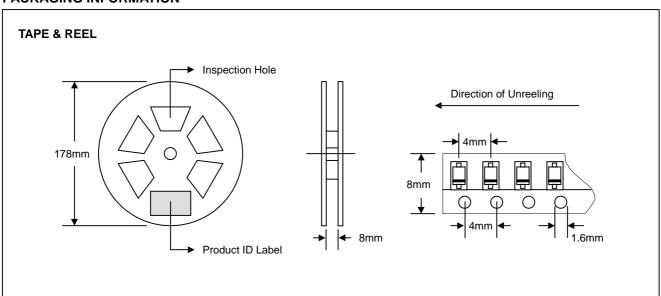
Fig. 3 Typ. Junction Capacitance vs Reverse Voltage

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	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.

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