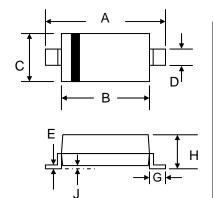


0.5A LOW V_F SURFACE MOUNT SCHOTTKY BARRIER DIODE



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



SOD-123					
Dim	Min	Max			
Α	3.60	3.90			
В	2.50	2.80			
С	1.40	1.80			
D	0.50	0.70			
E	_	0.20			
G	0.25	_			
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 @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			Α
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			118 206	°C/W
Operating Temperature Range	TJ	-65 to +125		°C	
Storage Temperature Range	Тѕтс	-65 to +150			°C

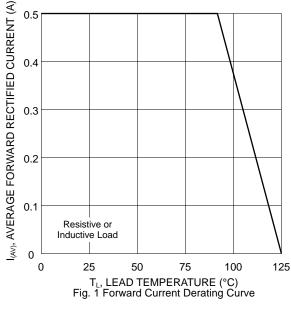
Electrical Characteristics @TA=25°C unless otherwise specified

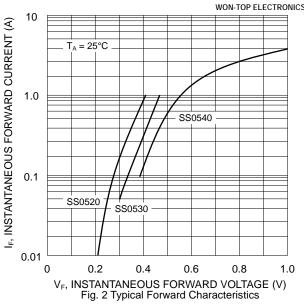
Characteristic		Symbol	SS0520	SS0530	SS0540	Unit
Maximum Forward Voltage Drop	@ IF = 0.1A @ IF = 0.5A @ IF = 1.0A	VFM	0.300 0.385 —	0.375 0.430 —	 0.510 0.620	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _J = 25°C @T _J = 100°C	IRM	250 8.0	130 5.0	20 13	μA mA

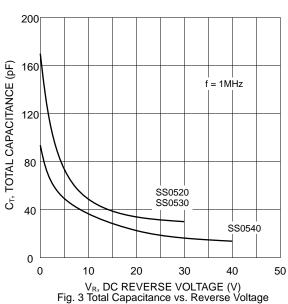
Note: 1. Mounted on FR-4 PCB with 645mm² pad size.

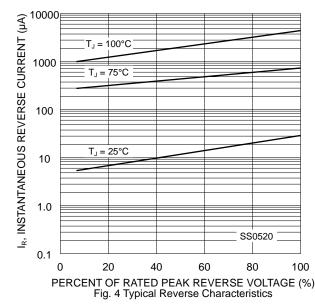
2. Mounted on FR-4 PCB with minimum recommended pad size.

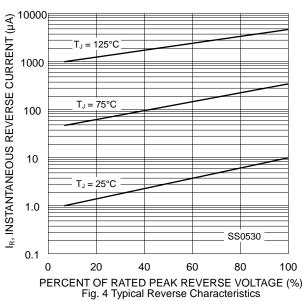


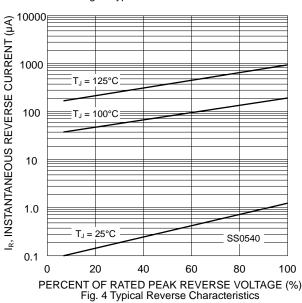








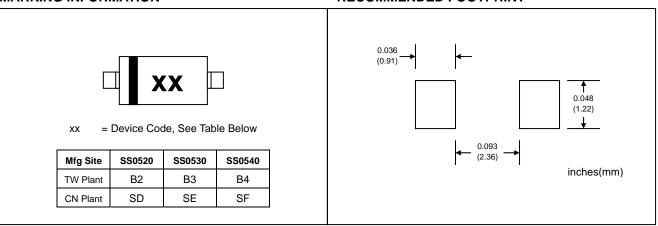




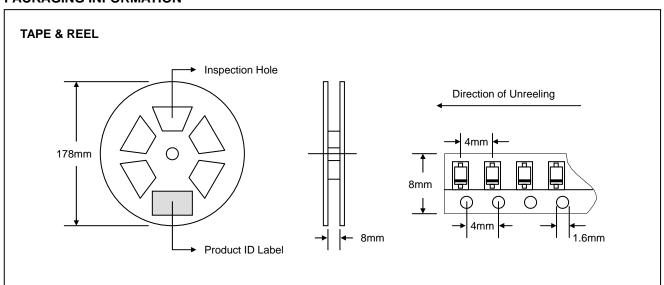


MARKING INFORMATION

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		

- 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, 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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