



# **DATA SHEET**

# SS0520~SS0540

# SURFACE MOUNT SCHOTTKY BARRIER

 VOLTAGE
 20 to 40 Volts
 CURRENT
 0.50 Ampers

## **FEATURES**

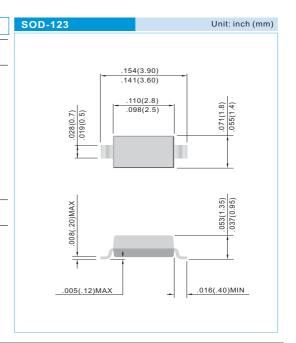
- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

### **MECHANICAL DATA**

Case: SOD-123, Plastic

Terminals: Solderable per MIL-STD-202G, Method 208

Polarity: See Diagram Below Approx. Weight: 0.008 gram



# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

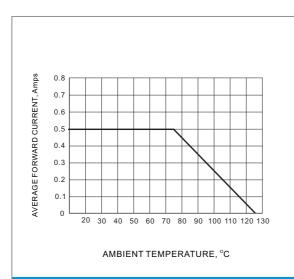
For capacitive load, derate current by 20%.

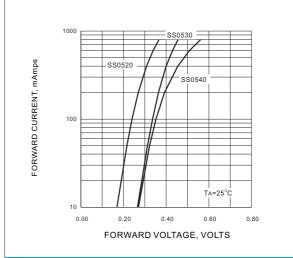
Param eter	Sym bol	SS0520	SS0530	SS0540	Units
Marking Code		B 2	В3	B 4	
Maximum Recurrent Peak Reverse Voltage	Vrrm	2 0	3 0	4 0	V
Maximum RMS Voltage	Vrms	14	21	28	V
Maximum DC Blocking Voltage	VDC	2 0	3 0	4 0	V
Maximum Average Forward CurrentatTa=75°C	ΙΑV	0 .5			A
Peak Forward Surge Current, 8.3ms single half sine-wave superim posed on rated load (JEDEC method)	Irsm	5 .5			A
Maximum Instantaneous Forward Voltage	V F	0.3@ 0.1A 0.385@ 0.5A	0.375@ 0.1A 0.430@ 0.5A	0.51@ 0.5A 0.62@ 1.0A	V
Maximum Reverse Current	Īĸ	75@ Vr=10V	20@ Vr=15V	10@ Vr=20V	uA
Typical junction capacitance at VR=0V DC	СJ	170			pF
Maximum ThermalResistance	R θJL R θJA	150 206			°C /W
Operating Junction and Storage Temperature Range	TJ,TsTG	-55 TO +125			°C

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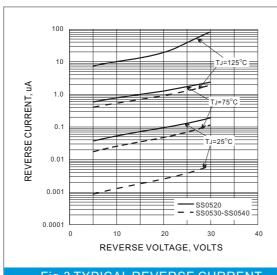






# Fig.1 FORWARD CURRENT DERATING

Fig.2 TYPICAL FORWARD VOLTAGE



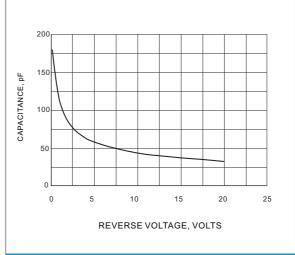


Fig.3 TYPICAL REVERSE CURRENT

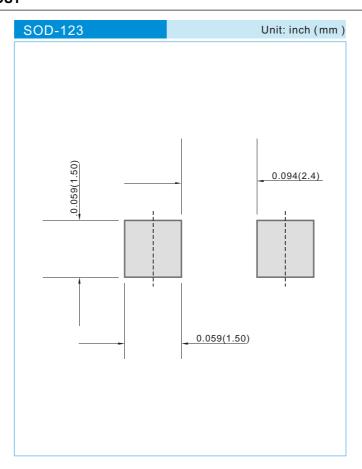
Fig.4 TYPICAL JUNCTION CAPACITANC

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#### **MOUNTING PAD LAYOUT**



## **ORDER INFORMATION**

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

## **LEGAL STATEMENT**

### IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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