



1. 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.
- Both normal and Pb free product are available :

Normal : 80~95% Sn, 5~20% Pb

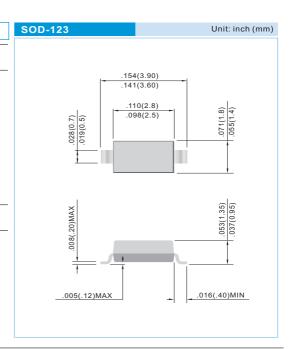
Pb free: 99% Sn above

MECHANICAL DATA

Case: SOD-123, Plastic

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

Polarity: See Diagram Below Approx. Weight: 0.008 gram



Part Number: SS0520~SS0540

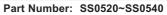
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

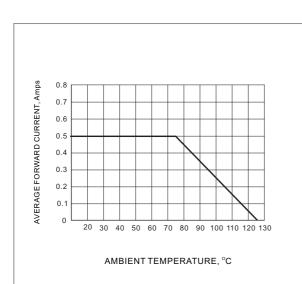
For capacitive load, derate current by 20%.

Sym bol	SS0520	SS0530	SS0540	Units
	В2	B 3	B 4	
Vrrm	20	3 0	4 0	V
Vrms	14	21	28	V
VDC	20	3 0	40	V
Ia v	0 .5			A
Irsm	5 .5			A
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
Īĸ	75@ Vr=10V	20@ Vr=15V	10@ Vr=20V	uA
Сj	170			pF
R θJL R θJA	150 206			°C /W
TJ,TsTG	-55 TO +125			°C
	VRRM VRMS VDC IAV IFSM VF R CJ R 0JL R 0JA	B2 VRRM 20 VRMS 14 VDC 20 IAV IFSM VF 0.3@ 0.1A 0.385@ 0.5A R 75@ Vr=10V CJ RθJL RθJA	B2 B3 VRRM 20 30 VRMS 14 21 VDC 20 30 IAV 0.5 IFSM 5.5 VF 0.3@ 0.1A 0.375@ 0.1A 0.385@ 0.5A R 75@ Vr=10V 20@ Vr=15V CJ 170 R0JL 150 206	B2 B3 B4 VRRM 20 30 40 VRMS 14 21 28 VDC 20 30 40 Av 0.5 FSM 5.5 VF 0.3@ 0.1A 0.375@ 0.1A 0.51@ 0.5A 0.385@ 0.5A 0.430@ 0.5A 0.62@ 1.0A R 75@ Vr=10V 20@ Vr=15V 10@ Vr=20V CJ 170 R 0JL 150 206

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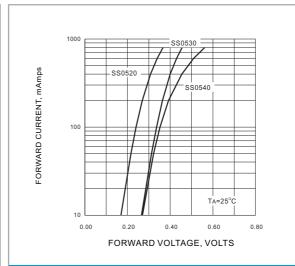
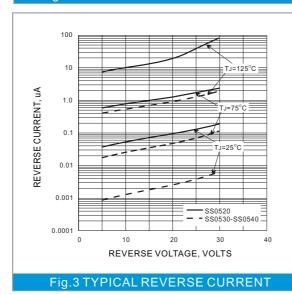
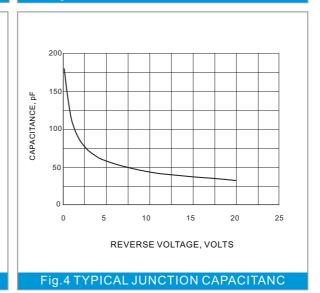


Fig.1 FORWARD CURRENT DERATING

Fig.2 TYPICAL FORWARD VOLTAGE

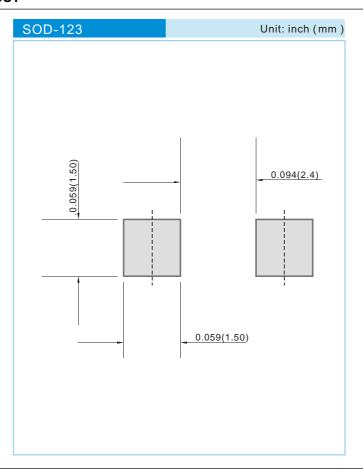




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ORDER INFORMATION

· 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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