



DATA SHEET

SS1040

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 Volts **CURRENT** 1.0 Amperes

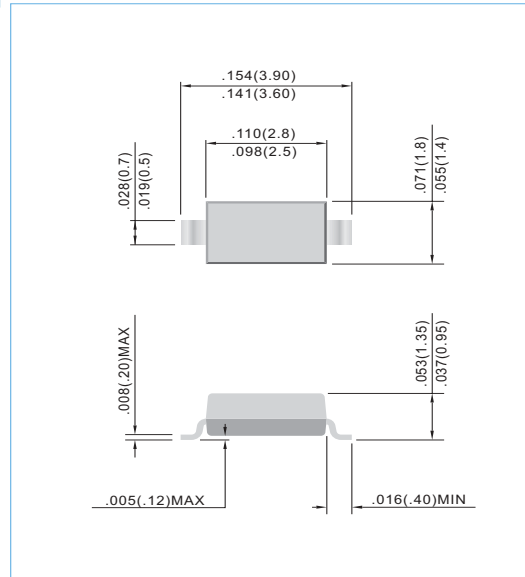
SOD-123 Unit: inch (mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

MECHANICAL DATA

Case: SOD-123, Plastic
Terminals: Solderable per MIL-STD-202, Method 208
Approx. Weight: 0.0104 gram
Marking : G5



ABSOLUTE RATINGS

PARAMETER	Symbol	Value	Units
Reverse Voltage	V_R	40	V
Peak Reverse Voltage	V_{RRM}	40	V
Average Rectified Current at Temp=75°C	I_o	1.0	A
Non-repetitive Peak Forward Surge Current at t=8.3ms	I_{FSM}	30	A

THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value	Units
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	325	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature at Temp=25°C	T_{lStg}	-55 to 150	°C

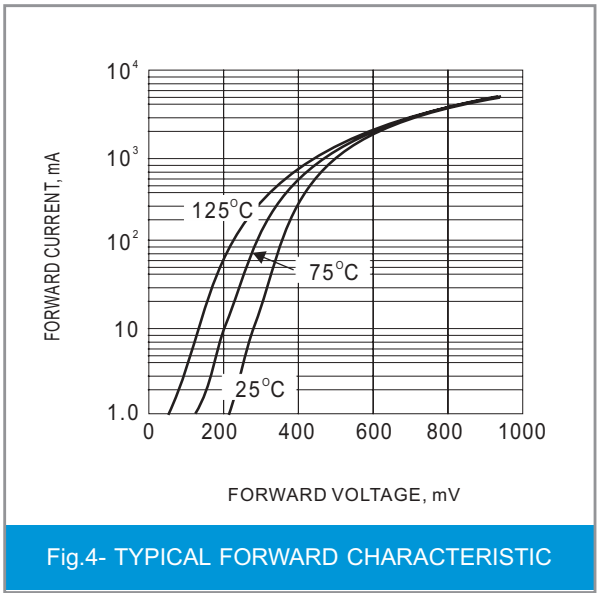
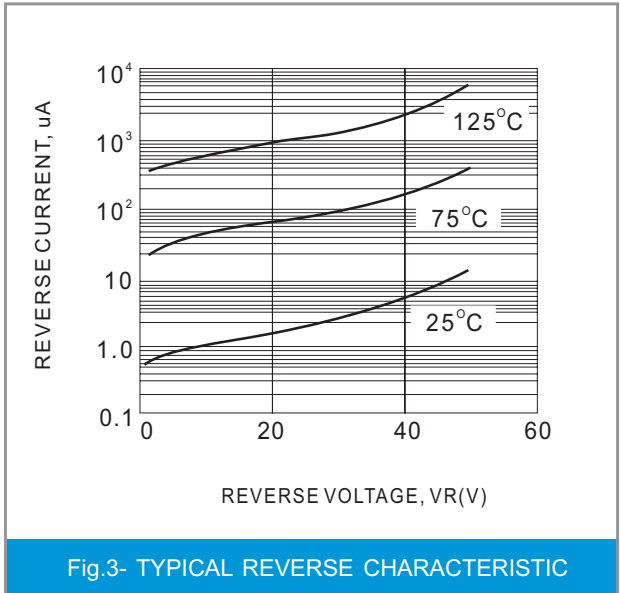
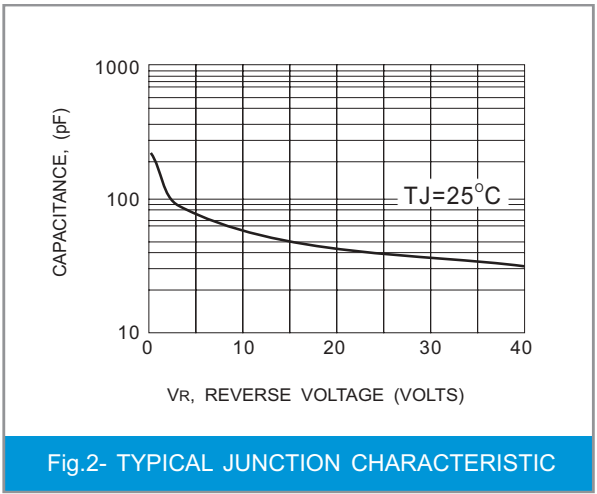
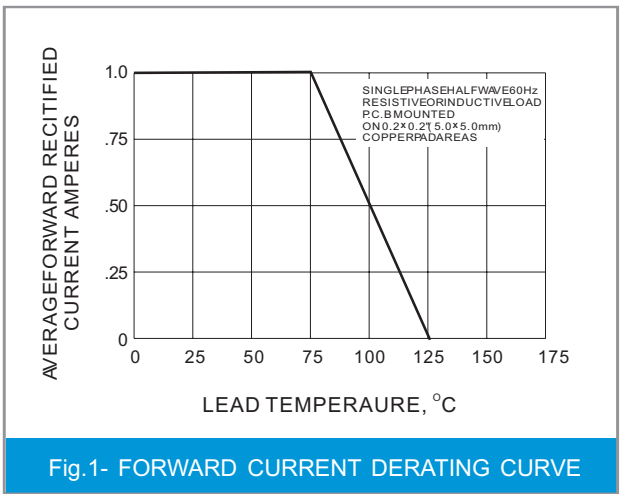
Note.1 Mounted with minimum recommended pad size, PC Board FR4.



ELECTRICAL CHARACTERISTICS

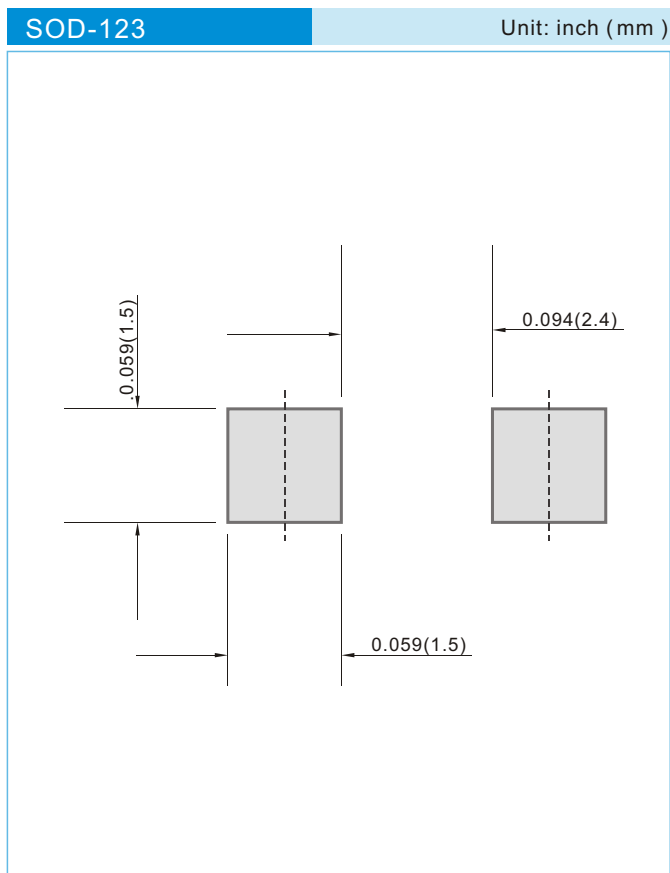
PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=500 \mu A$	40	--	--	V
Reverse Current	I_R	$V_R=40 V$	--	--	500	μA
Forward Voltage	V_F	$I_F=1.0A$	--	--	0.55	V
Diode Capacitance	C_T	$V_R=0V, f=1.0MHz$	--	--	230	pF

RATING AND CHARACTERISTIC CURVES





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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