

DATA SHEET

BAT54WS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts **CURRENT** 0.2 Amperes

SOD-323

Unit: inch (mm)

FEATURES

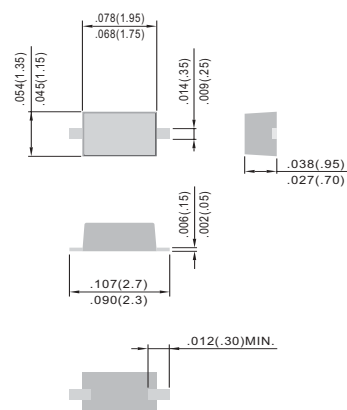
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

Case: SOD-323, Plastic

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

Approx. Weight: 0.0045 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Maximum Average Forward Current at $T_a=75^{\circ}\text{C}$	I_o	0.2	A
Peak Forward Surge Current, 1.0s (JEDEC method)	I_{FSM}	0.6	A
Maximum Instantaneous Forward Voltage @ $I_F=1\text{mA}$ @ $I_F=100\text{mA}$	V_F	0.32 1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $V_R=25\text{V}$	I_R	2.0	μA
Junction Capacitance at $V_R=1\text{V}$	C_j	10	pF
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	$^{\circ}\text{C/W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 TO +125	$^{\circ}\text{C}$

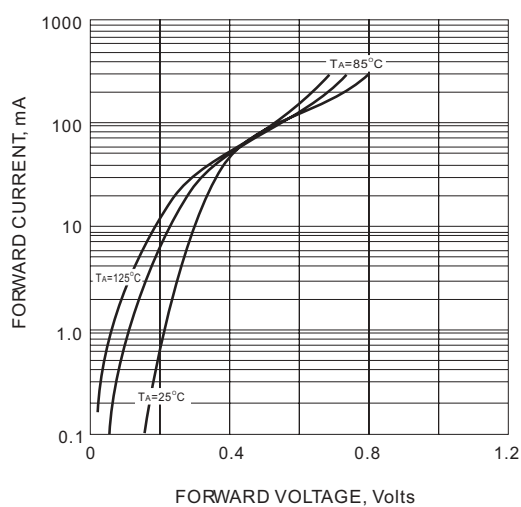


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

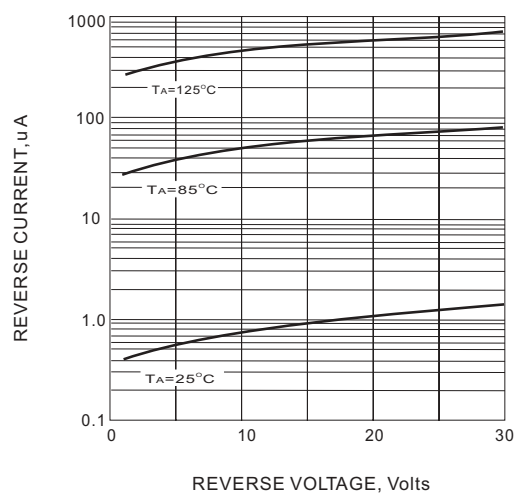


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

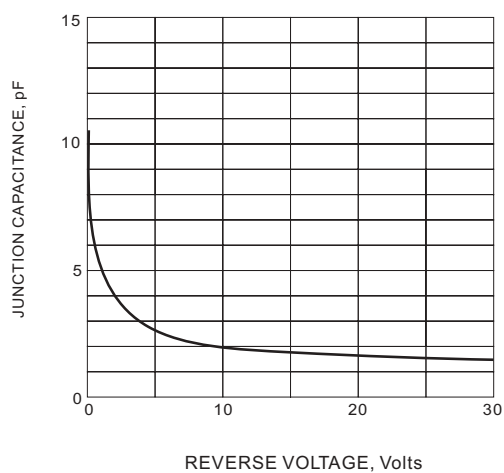


FIG. 3 TYPICAL JUNCTION CAPACITANCE

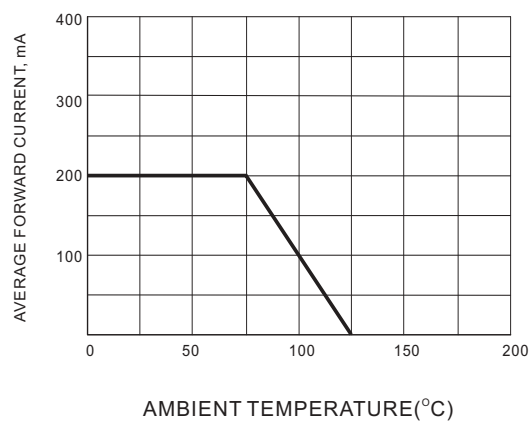
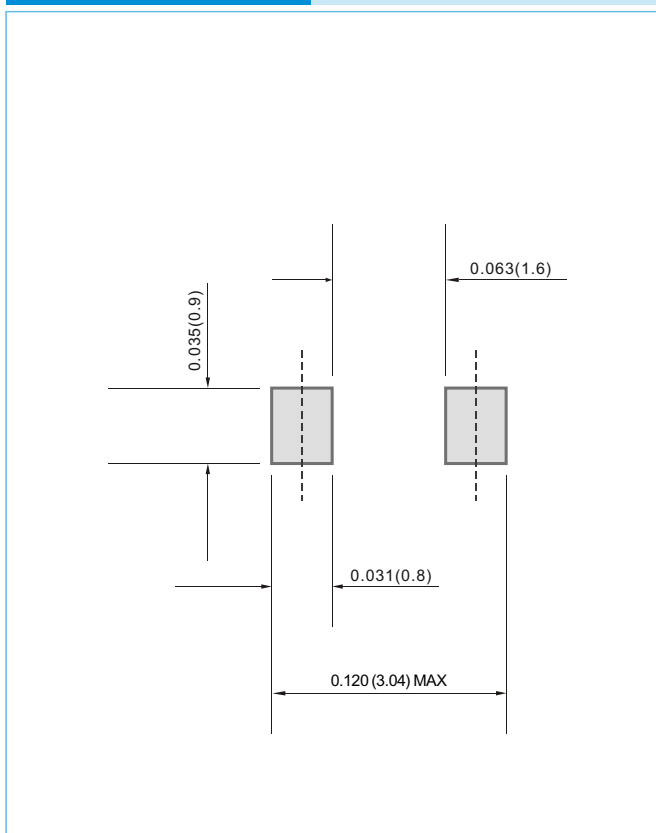


FIG. 4 FORWARD CURRENT DERATING

MOUNTING PAD LAYOUT

SOD-323

Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 5.0K 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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