



# BAT54TS

## SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 30 Volts **CURRENT** 0.20 Amperes

### 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 substsnce directive request

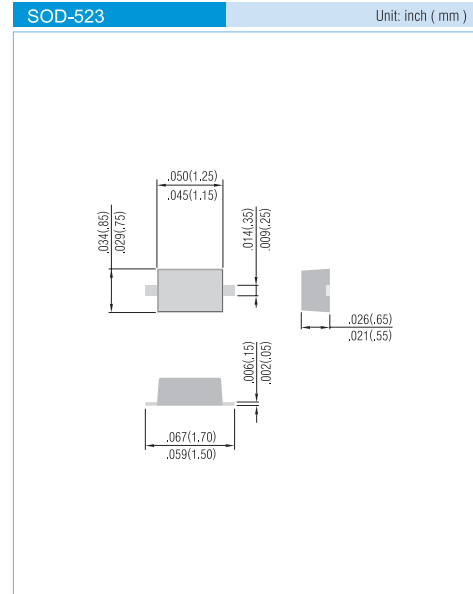
### MECHANICAL DATA

Case: SOD-523, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.002 gram

Marking: L4



### 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 $T_a=75^{\circ}C$	$I_{F(AV)}$	0.2	A
Peak Forward Surge Current, 1.0s (JEDEC method)	$I_{FSM}$	0.6	A
Maximum Instantaneous Forward Voltage @ $I_F=1mA$ @ $I_F=100mA$	$V_F$	0.32 1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $V_R=25V$	$I_R$	2.0	$\mu A$
Junction Capacitance at $V_R=1V$	$C_J$	10	pF
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	667	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 TO +125	$^{\circ}C$



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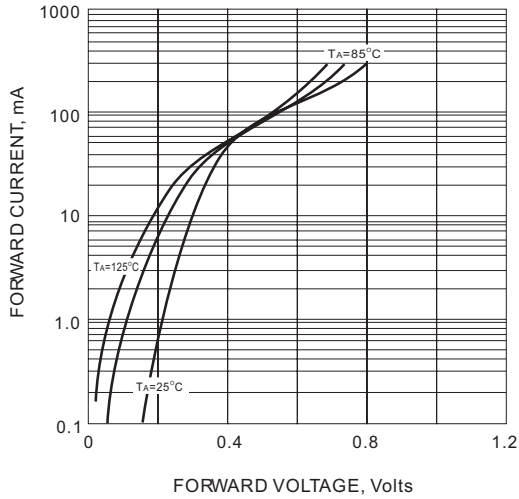


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

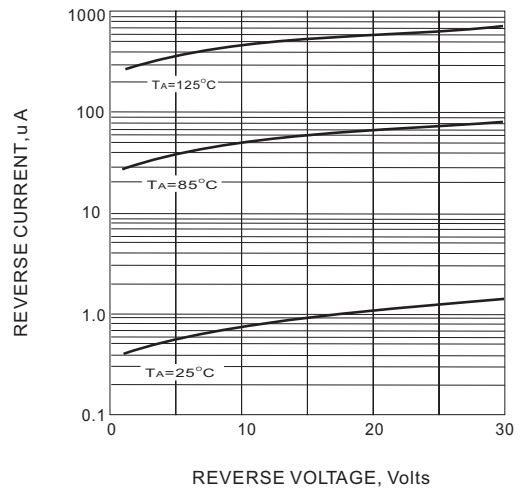


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

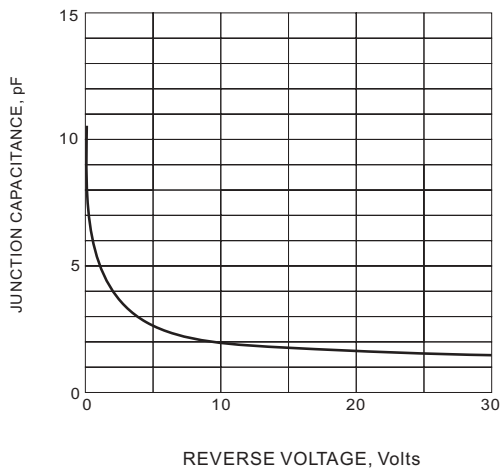


FIG. 3 TYPICAL JUNCTION CAPACITANCE

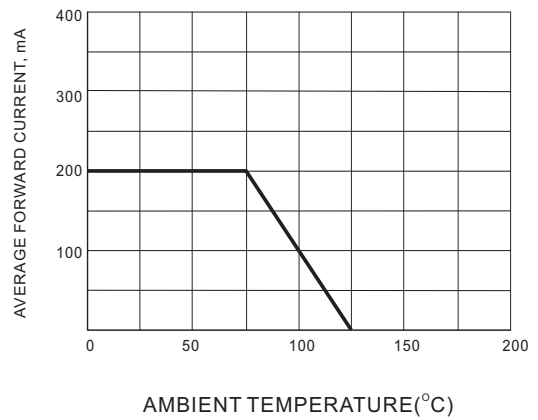
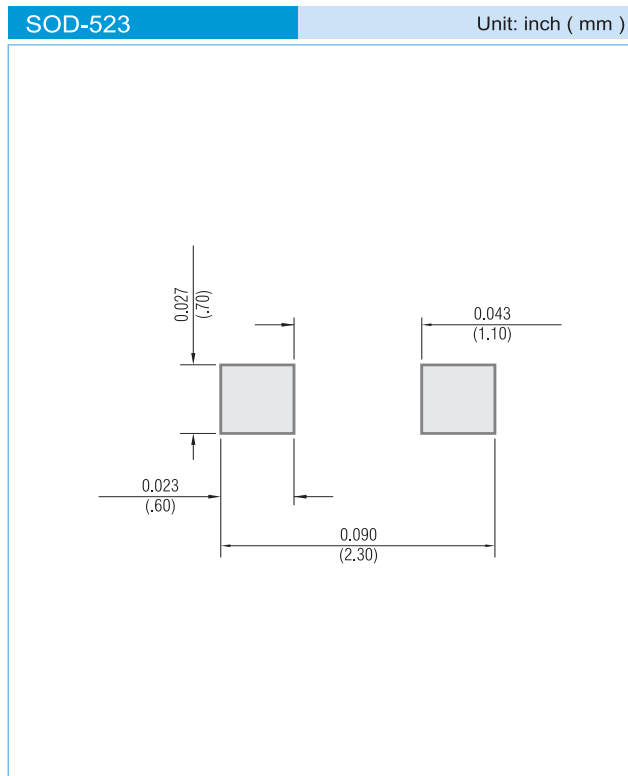


FIG. 4 FORWARD CURRENT DERATING



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel

## LEGAL STATEMENT

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