



# BAT54TS

## SURFACE MOUNT SCHOTTKY BARRIER

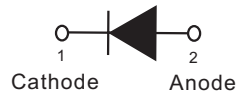
**VOLTAGE** 30 Volts **CURRENT** 0.20 Amperes

### FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection
- In compliance with EU RoHS 2002/95/EC directives

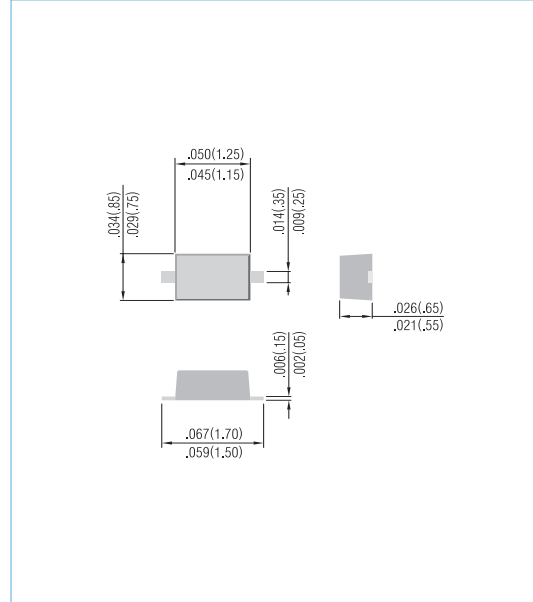
### MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.002 gram
- Polarity : Color band cathode
- Marking: L4



SOD-523

Unit: inch ( mm )



## 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 $T_A=75^\circ\text{C}$	$I_{F(AV)}$	0.2	A
Peak Forward Surge Current, 1.0s single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	0.6	A
Maximum Instantaneous Forward Voltage	$V_F$	0.32 @ $I_F=0.001\text{A}$ 1.0 @ $I_F=0.1\text{A}$	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.002 @ $V_R=25\text{V}$	mA
Junction Capacitance at $V_R=1\text{V}$	$C_J$	10	pF
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	667	$^\circ\text{C}/\text{W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125	$^\circ\text{C}$



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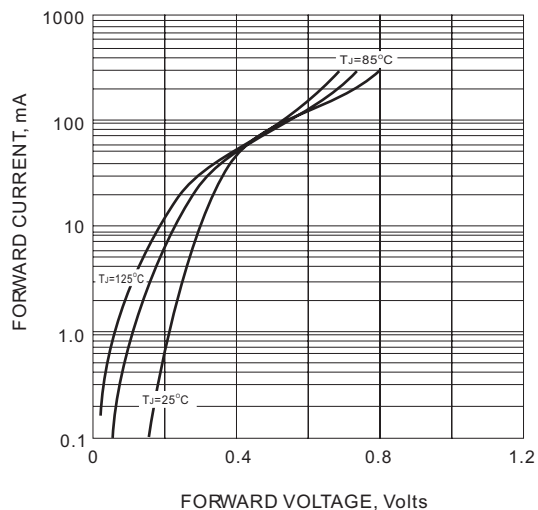


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

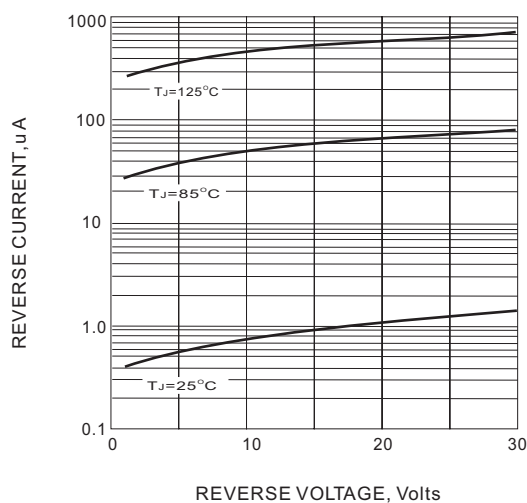


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

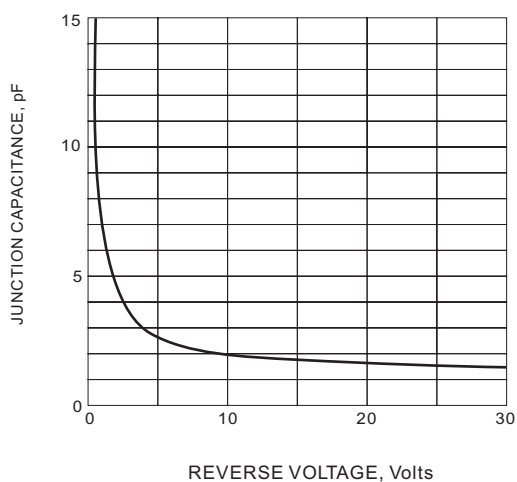


FIG. 3 TYPICAL JUNCTION CAPACITANCE

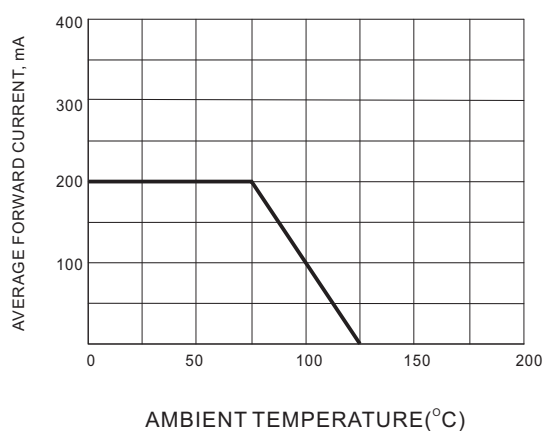


FIG. 4 FORWARD CURRENT DERATING

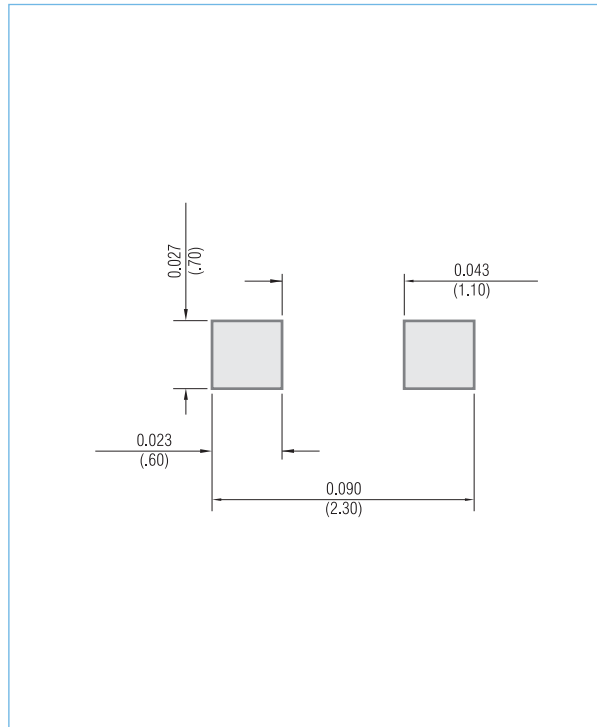


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## MOUNTING PAD LAYOUT

SOD-523

Unit: inch ( mm )



## ORDER INFORMATION

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

## LEGAL STATEMENT

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