



# 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

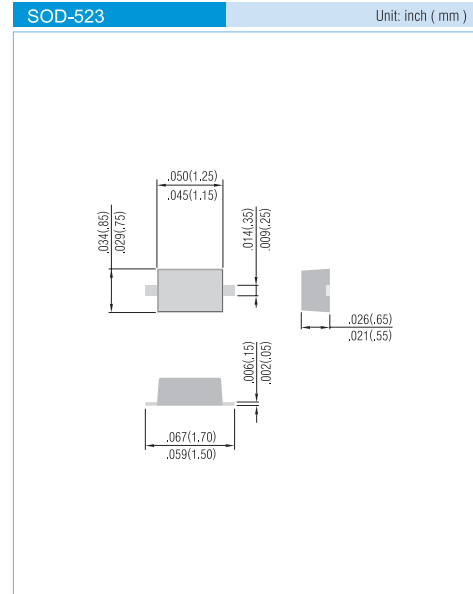
### MECHANICAL DATA

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



# BAT54TS

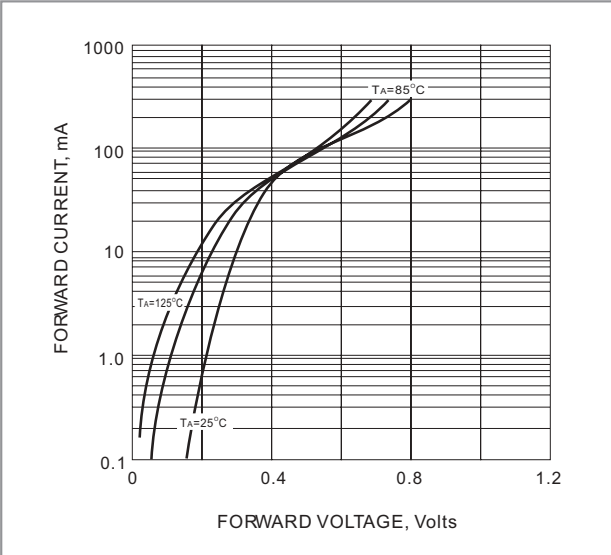


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

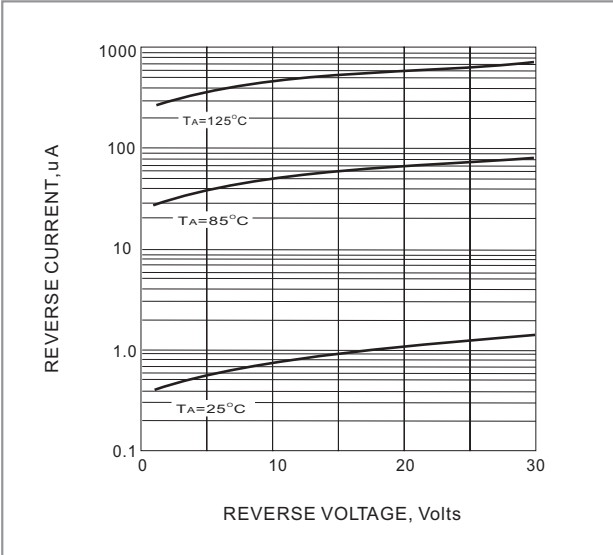


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

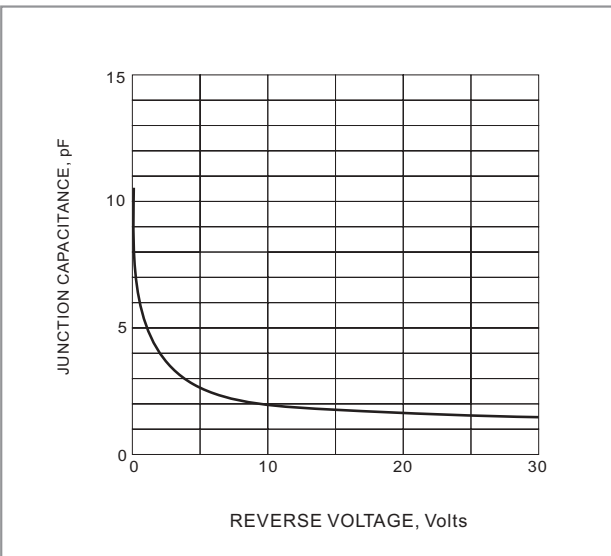


FIG. 3 TYPICAL JUNCTION CAPACITANCE

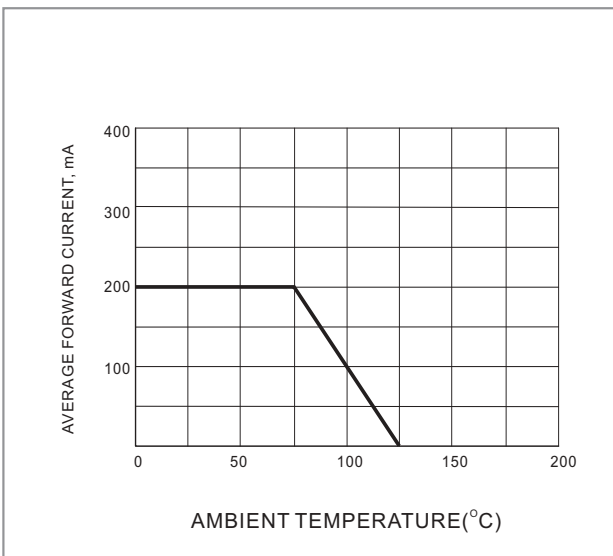
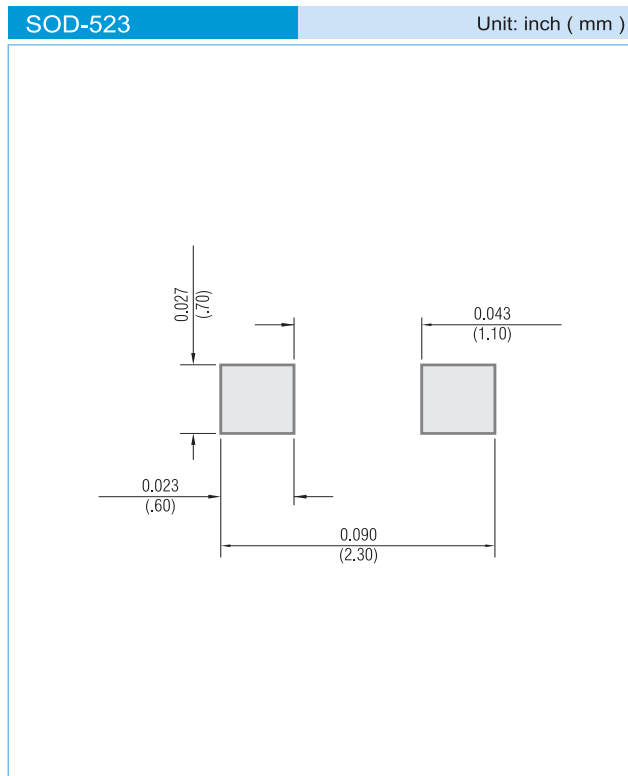


FIG. 4 FORWARD CURRENT DERATING



# BAT54TS

## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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

## LEGAL STATEMENT

### Copyright PanJit International, Inc 2006

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.