



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

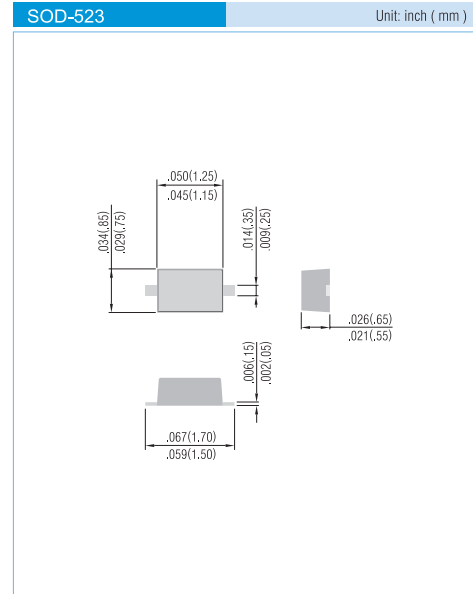
MECHANICAL DATA

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



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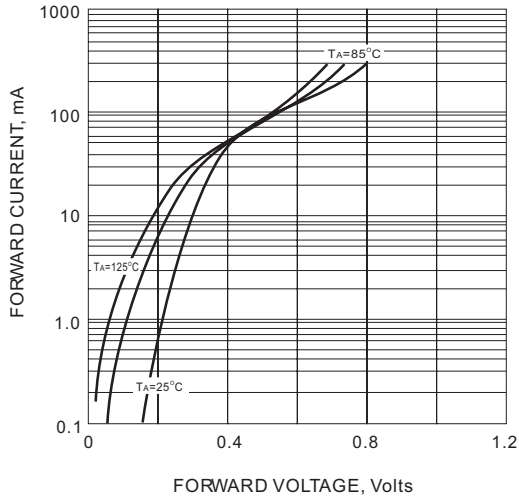


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

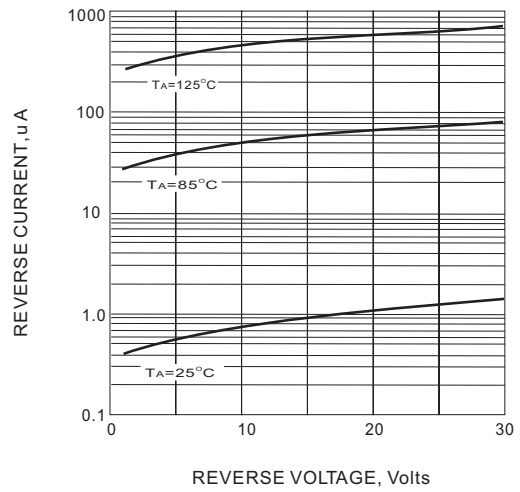


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

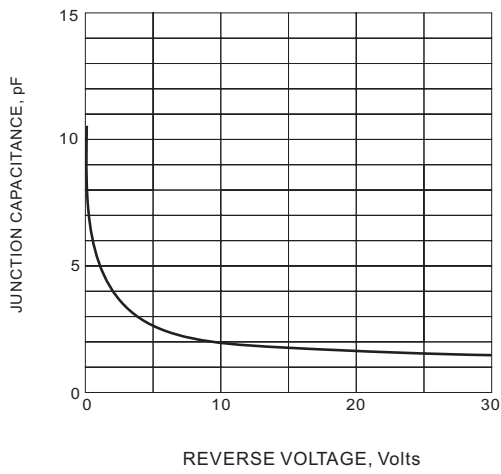


FIG. 3 TYPICAL JUNCTION CAPACITANCE

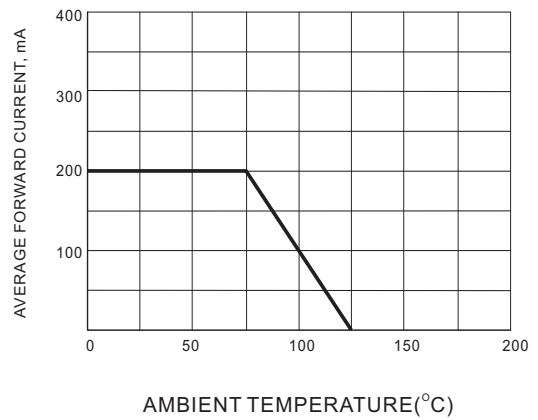
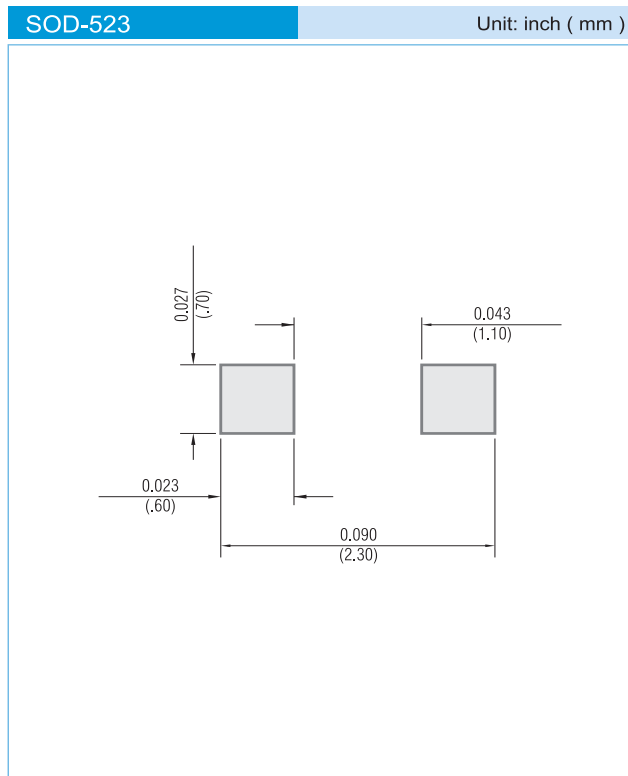


FIG. 4 FORWARD CURRENT DERATING



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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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