

BAT54TS

SURFACE MOUNT SCHOTTKY BARRIER

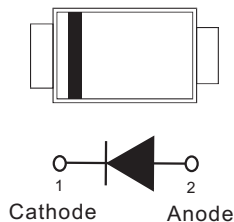
VOLTAGE 30 Volt **CURRENT** 0.20 Ampere

FEATURES

- Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

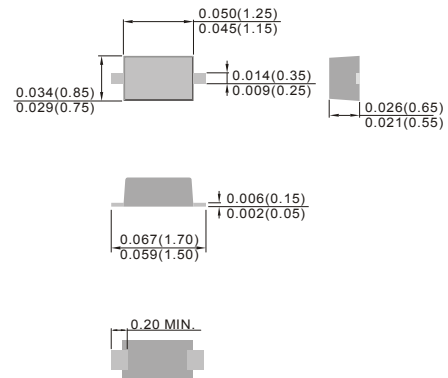
MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0001 ounces, 0.0014 grams
- Polarity: Color band denotes cathode end
- 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, 1s single half sine-wave superimposed on rated load	I_{FSM}	0.6	A
Maximum Instantaneous Forward Voltage @ $I_F=1\text{mA}$ @ $I_F=100\text{mA}$	V_F	0.32 0.6	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $V_R=25\text{V}$	I_R	2	μA
Junction Capacitance at $V_R=1\text{V}$	C_J	10	pF
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	667	$^{\circ}\text{C/W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125	$^{\circ}\text{C}$

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TYPICAL CHARACTERISTIC CURVES

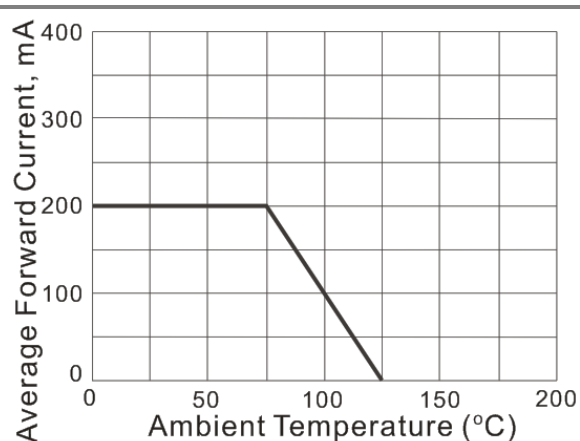


Fig.1 Forward Current Derating Curve

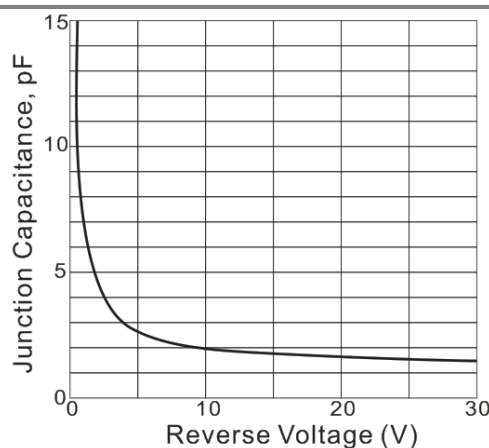


Fig.2 Typical Junction Capacitance

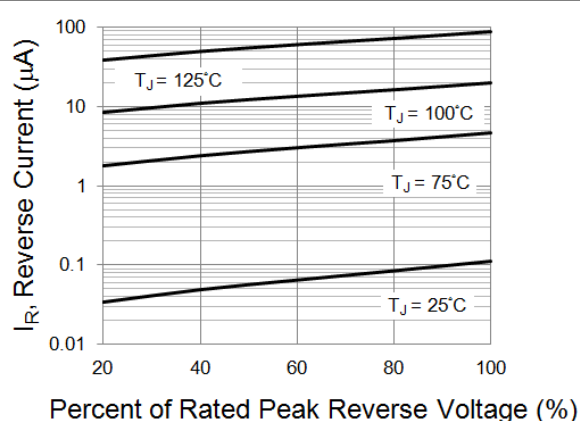


Fig.3 Typical Reverse Characteristics

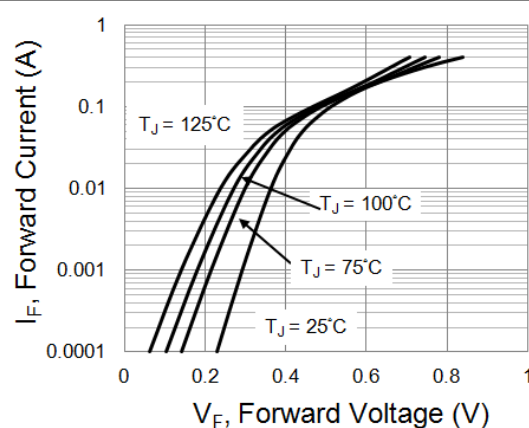


Fig.4 Typical Forward Characteristics

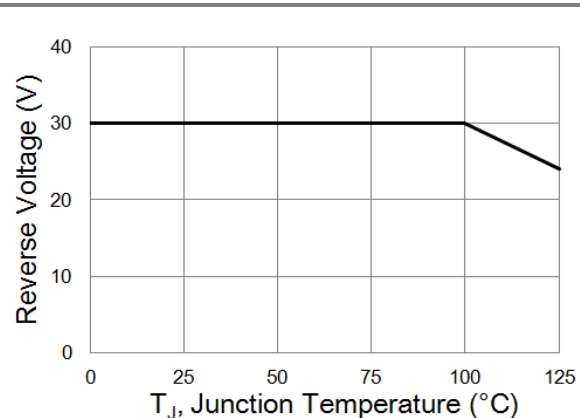
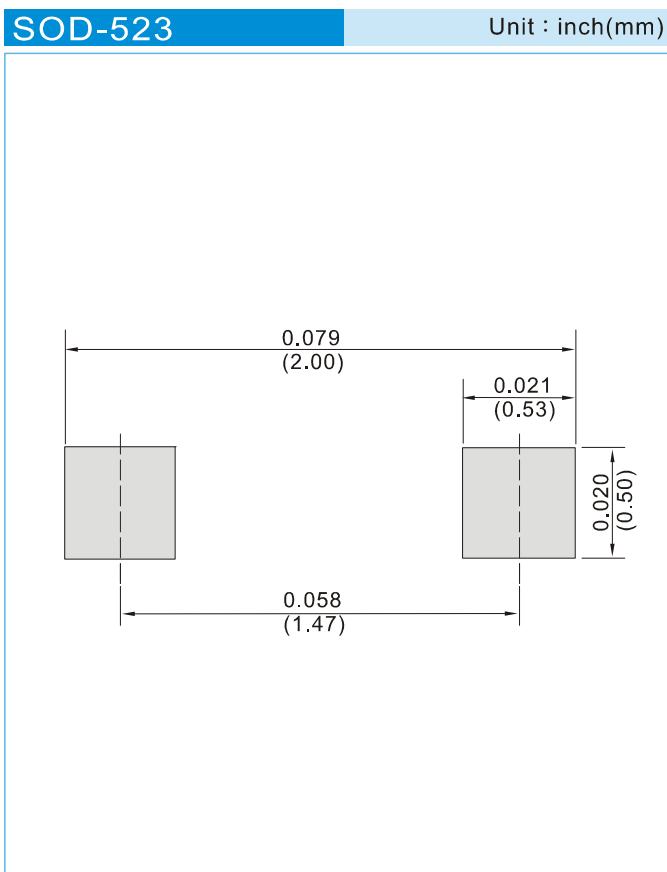


Fig.5 Operating Temperature Derating Curve

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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

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