

# BAT54TS

## SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 30 Volts

**CURRENT**

**SOD-523**

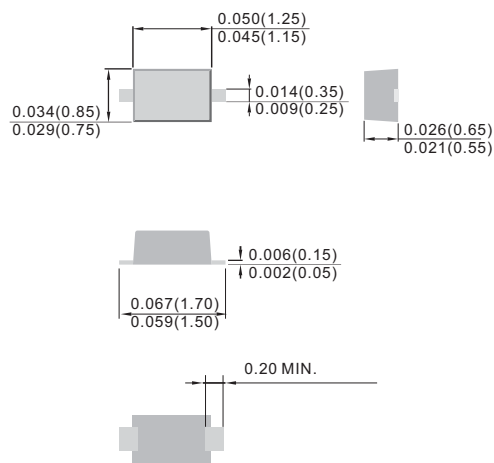
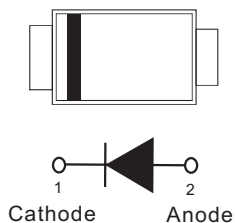
Unit : inch(mm)

### FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection
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### 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 cathode
- 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 $T_A=75^\circ\text{C}$                                        | $I_{F(AV)}$     | 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@ $I_F=0.001\text{A}$<br>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                                          | $^\circ\text{C}$          |