



BAT54TM

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts **CURRENT** 0.2 Ampers

SOD-923

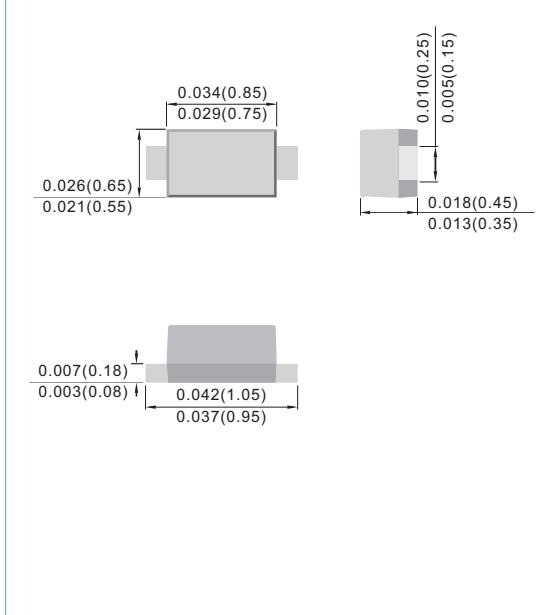
Unit : inch(mm)

FEATURES

- Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection.
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. (Halogen Free)

MECHANICAL DATA

- Case: SOD-923, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00002 ounces, 0.0005 grams
- Marking: E



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 $T_A=75^\circ C$ | $I_{F(AV)}$ | 0.2 | A |
| Peak Forward Surge Current, 1.0s (JEDEC method) | I_{FSM} | 0.6 | A |
| Maximum Instantaneous Forward Voltage @ $I_F=1\text{mA}$ @ $I_F=100\text{mA}$ | V_F | 0.32 1.0 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @ $V_R=25\text{V}$ | I_R | 2.0 | μA |
| Junction Capacitance at $V_R=1\text{V}$ | C_J | 25 | 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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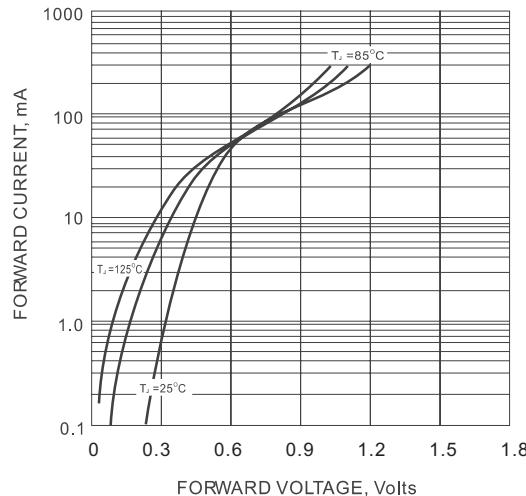


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

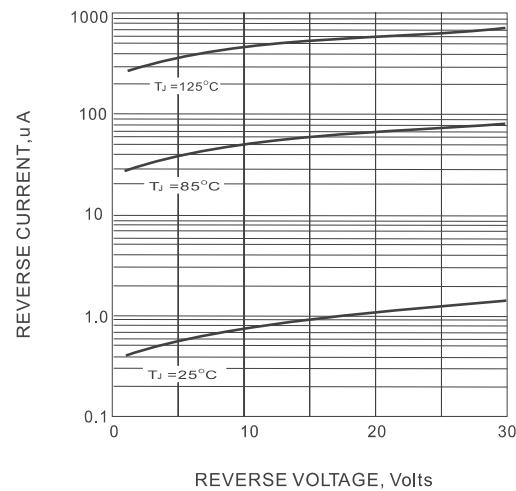


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

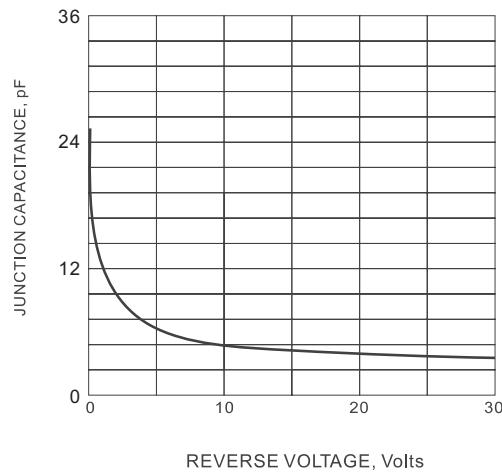


FIG. 3 TYPICAL JUNCTION CAPACITANCE

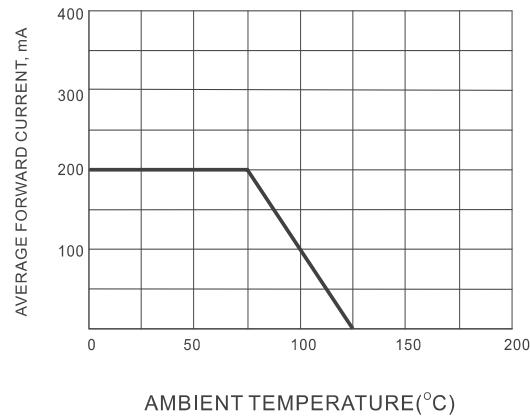
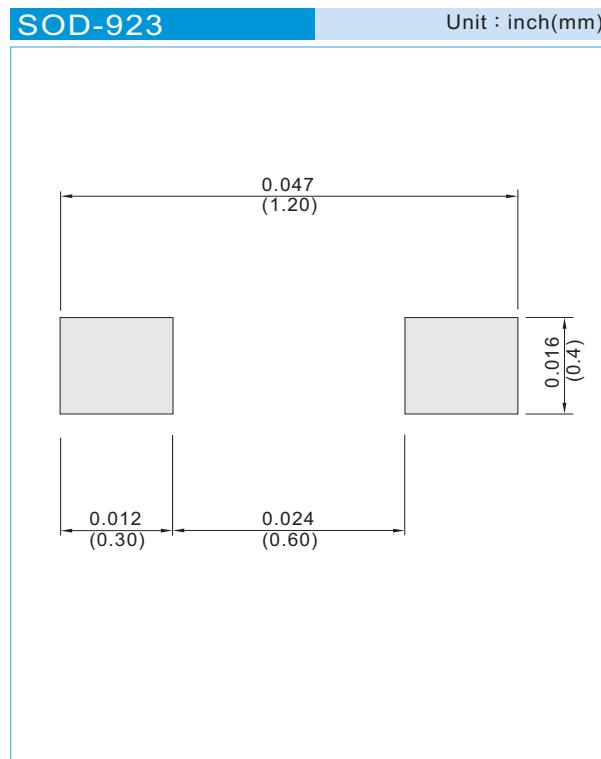


FIG. 4 FORWARD CURRENT DERATING



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 8K per 7" plastic Reel

LEGAL STATEMENT

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