

# BAT54TM

## SURFACE MOUNT SCHOTTKY BARRIER

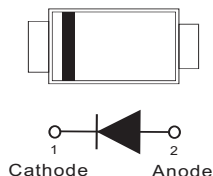
**VOLTAGE** 30 Volt **CURRENT** 0.2 Ampere

### FEATURES

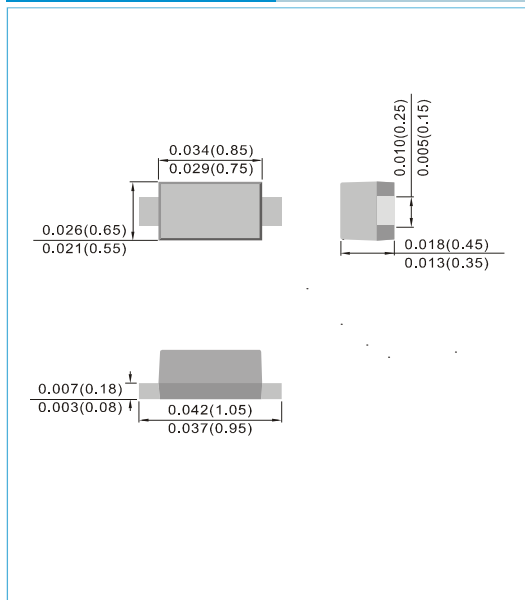
- Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. .  
(Halogen Free)

### MECHANICAL DATA

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



**SOD-923** 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	$I_{FSM}$	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	$\mu\text{A}$
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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## TYPICAL CHARACTERISTIC CURVES

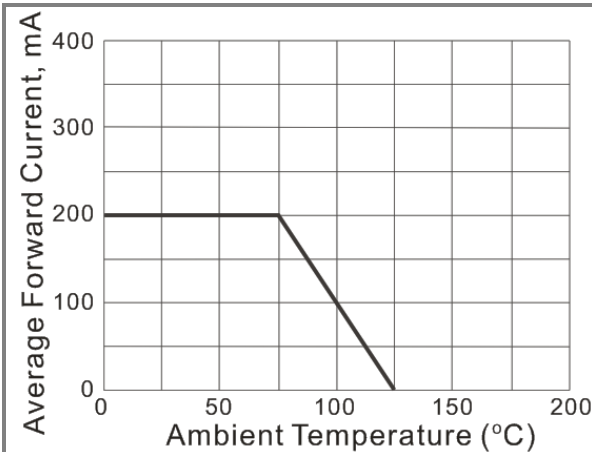


Fig.1 Forward Current Derating Curve

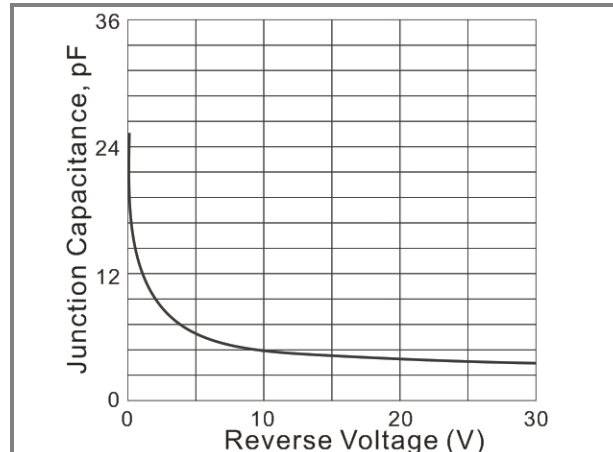


Fig.2 Typical Junction Capacitance

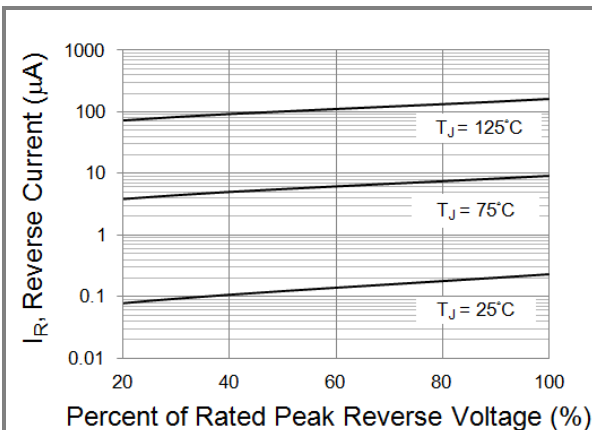


Fig.3 Typical Reverse Characteristics

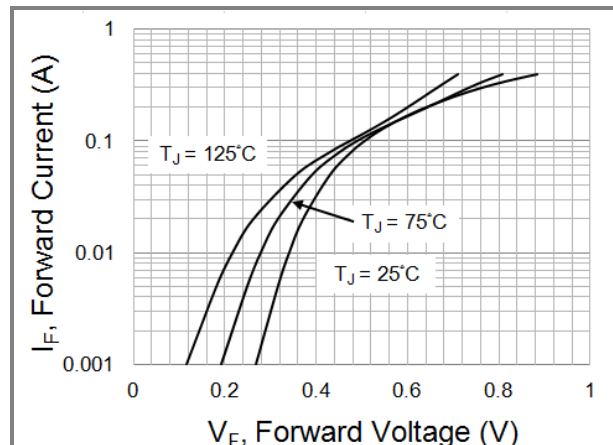


Fig.4 Typical Forward Characteristics

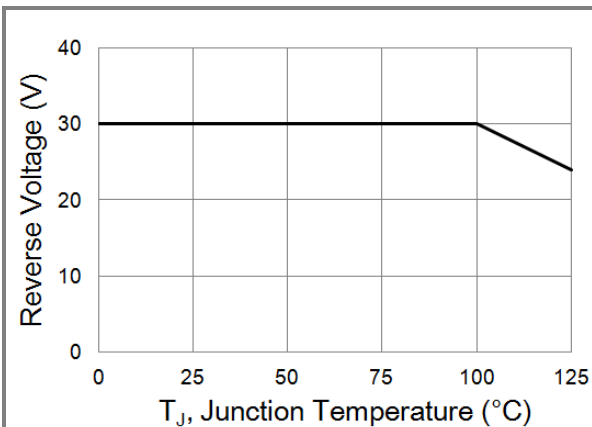


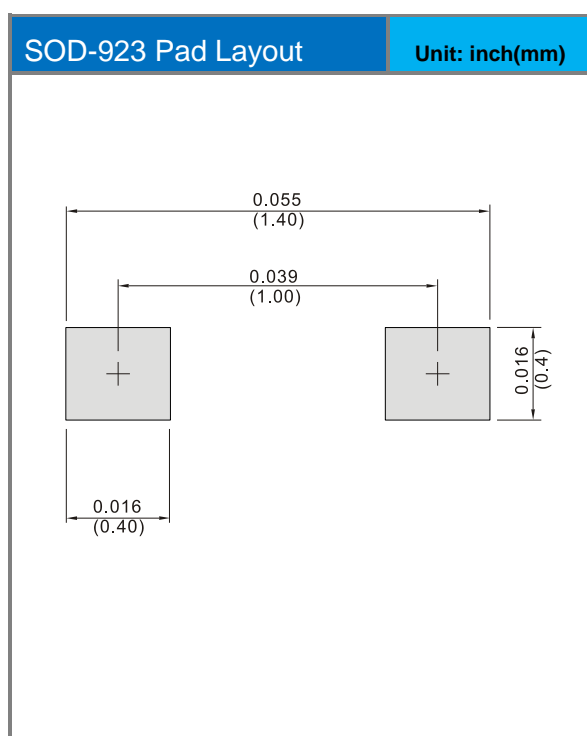
Fig.5 Operating Temperature Derating Curve

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## Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAT54TM	SOD-923	8K pcs / 7" reel	E

## Mounting Pad Layout



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