



BAT54WS

SURFACE MOUNT SCHOTTKY BARRIER

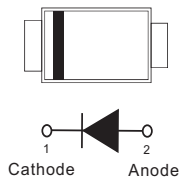
VOLTAGE 30 Volt **CURRENT** 0.2 Ampere

FEATURES

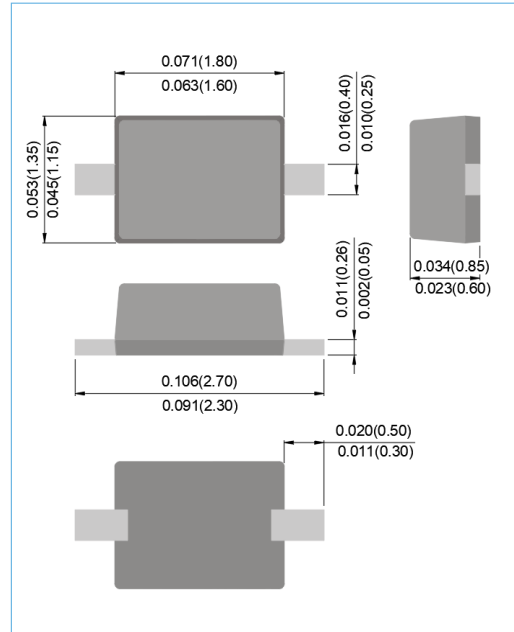
- Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case : SOD-323-1, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0041 grams
- Polarity : Color band denotes cathode end



SOD-323-1 Unit : inch (mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

For capacitive load, derate current by 20%.

Parameter	Symbol	Value	Units
Marking code		L4	
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Maximum Average Forward Current at T _A =75°C	I _{F(AV)}	0.2	A
Peak Forward Surge Current, 1s	I _{FSM}	1	A
Maximum Instantaneous Forward Voltage @ IF=1mA @ IF=100mA	V _F	0.32 0.6	V
Maximum DC Reverse Current at Rated DC Blocking Voltage@V _R =25V	I _R	2	μA
Junction Capacitance at V _R =1V	C _J	10	pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	500	°C/ W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +125	°C



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TYPICAL CHARACTERISTIC CURVES

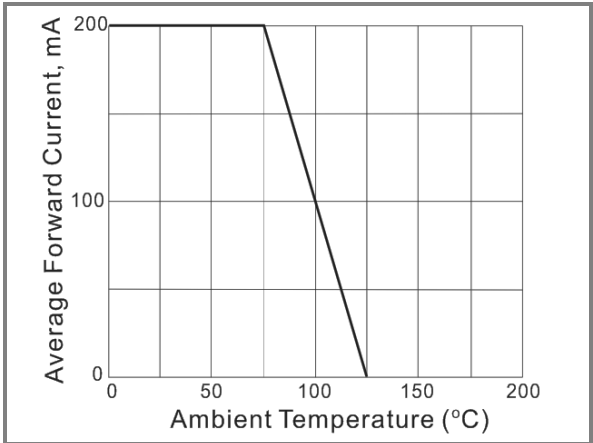


Fig.1 Forward Current Derating Curve

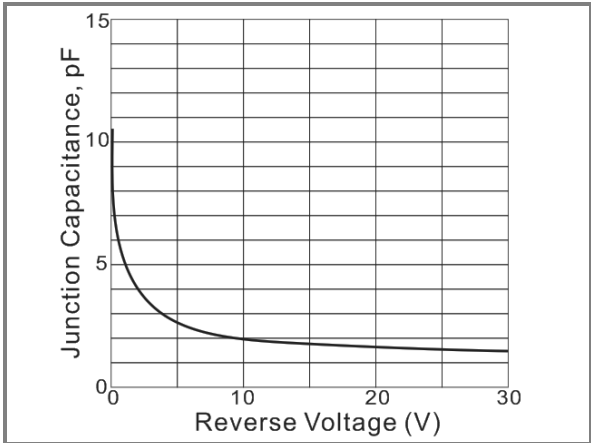


Fig.2 Typical Junction Capacitance

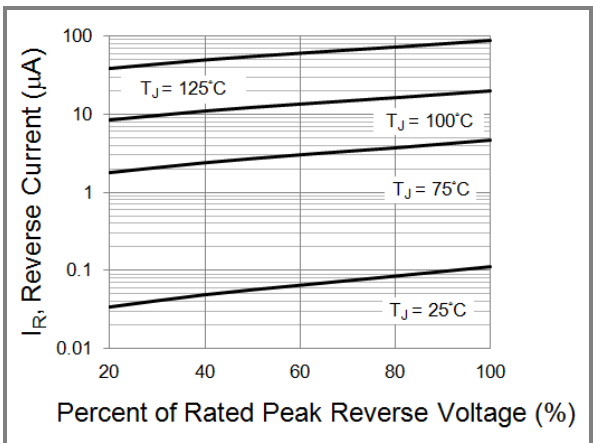


Fig.3 Typical Reverse Characteristics

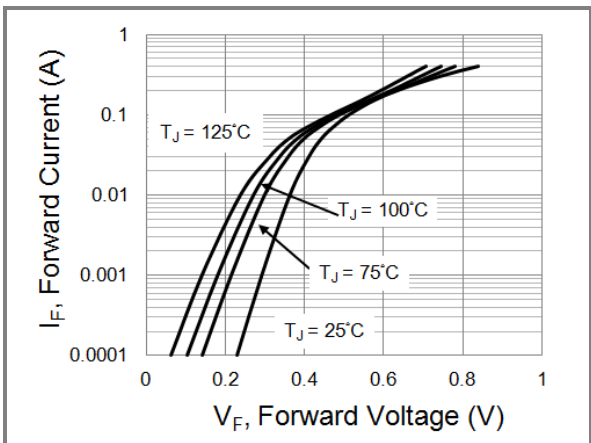


Fig.4 Typical Forward Characteristics

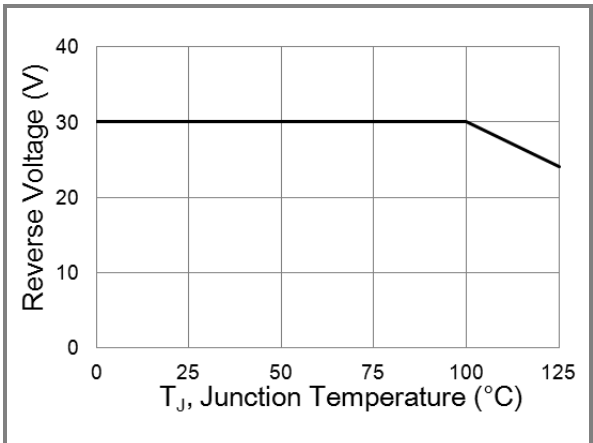


Fig.5 Operating Temperature Derating Curve

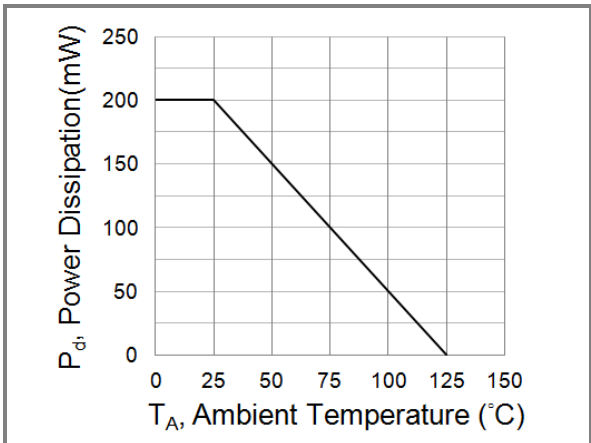


Fig.6 Power Derating Curve

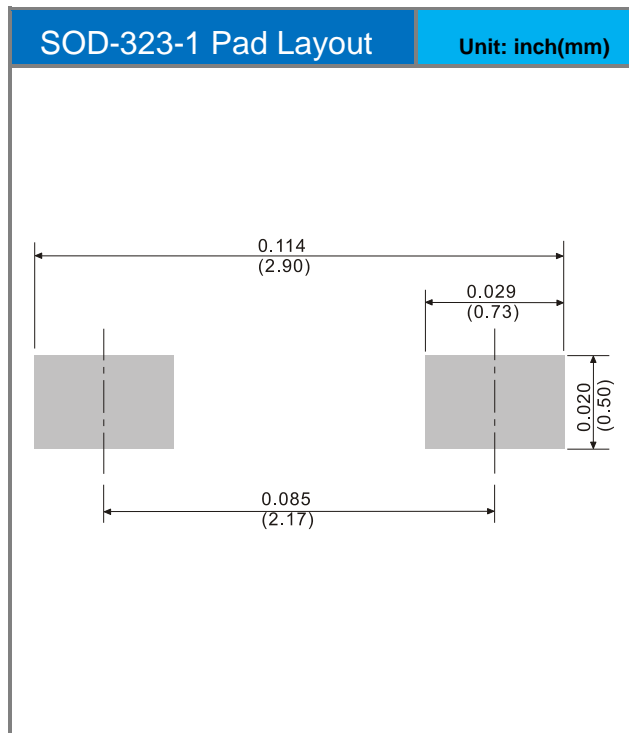


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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAT54WS	SOD-323-1	5K pcs / 7" reel	L4
BAT54WS	SOD-323-1	12K pcs / 13" reel	L4

Mounting Pad Layout





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