

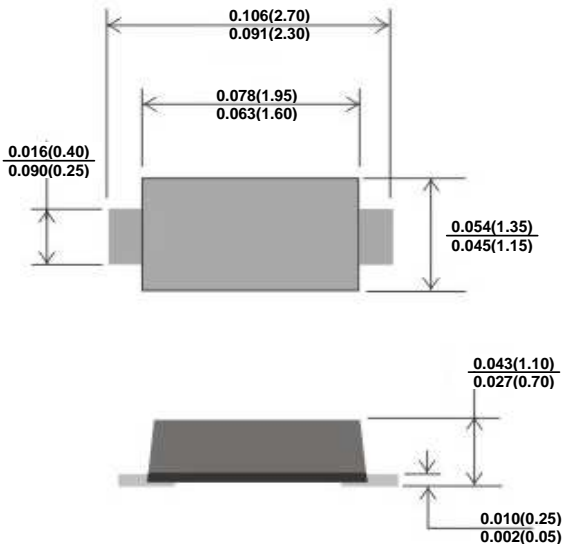


BAT54WS

SURFACE MOUNT SCHOTTKY BARRIER

Reverse Voltage - 30 Volts Forward Current - 0.2 Ampere

SOD-323L



Dimensions in inches and (millimeters)

FEATURES

- ◆ Low turn-on voltage
- ◆ Fast switching
- ◆ PN Junction Guard Ring for Transient and ESD Protection.
- ◆ In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

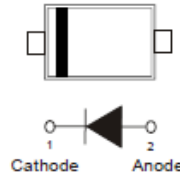
Case: JEDEC SOD-323L, Molded plastic

Terminals: Solderable per MIL-STD-750 Method 2026

Approx. Weight: 0.0001 ounces, 0.0041 grams

Polarity: Color band denotes cathode end

Marking: L4



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOLS	BAT54WS	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	30	Volts
Maximum forward current	$I_{F(AV)}$	0.2	Amp
Peak forward Surge Current, 1.0s (JEDEC method)	I_{FSM}	1	Amps
Maximum Instantaneous Forward Voltage	at $I_F = 1mA$ $I_F = 100mA$ V_F	0.32 1.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $V_R = 25V$	$T_J = 25^\circ C$ $T_J = 125^\circ C$ I_R	2.0	μA
Junction Capacitance : at $V_R = 1V$	C_J	10	pF
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	$^\circ C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125	$^\circ C$



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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

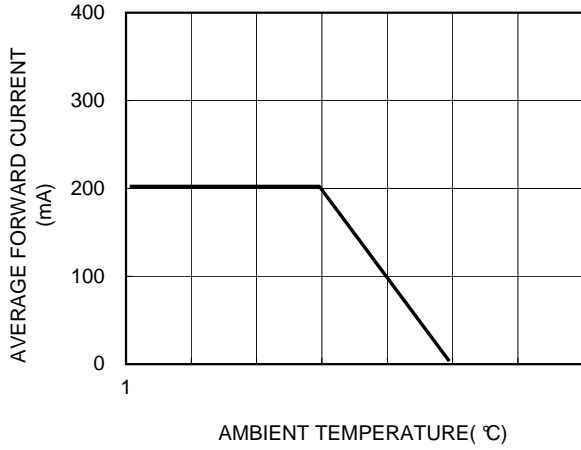


FIG. 2-TYPICAL JUNCTION RATINGS

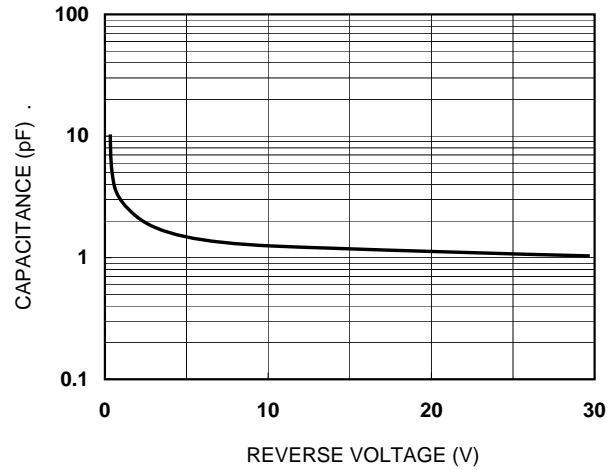


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

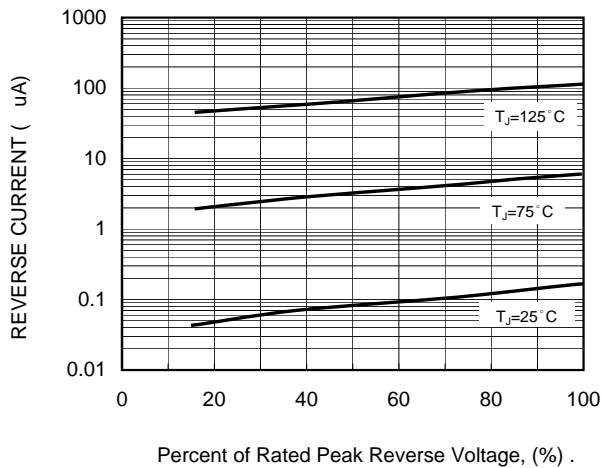
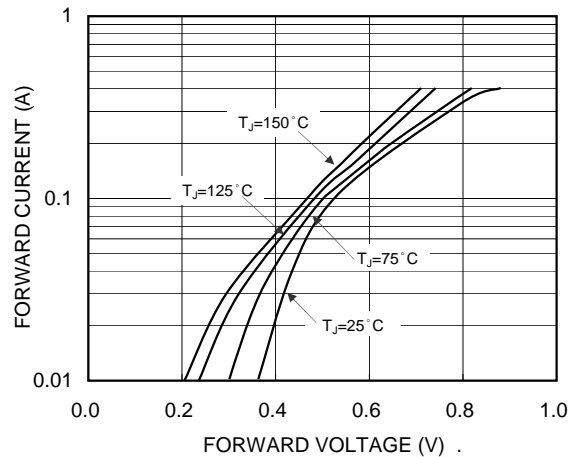


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



SOD-323L PACKAGE MOUNTING PAD LAYOUT

UNIT: inch(mm)

