

## Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- High Reliability
- Low Forward Voltage and Low Reverse Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT54WSHE3	L9	30V	21V	30V

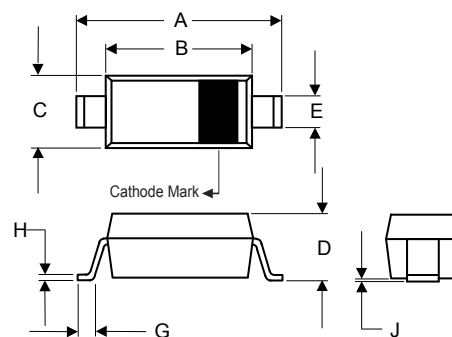
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Continuous Forward Current	$I_{F(AV)}$	200mA	
Repetitive Peak Forward Current	$I_{FRM}$	300mA	
Non-Repetitive Peak Forward Current	$I_{FSM}$	600mA	t=8.3ms
Power Dissipation Derate above 25°C	$P_d$	200mW 1.8mW/°C	$T_A=25^\circ\text{C}$
Maximum Forward Voltage at	$V_F$	240mV 320mV 400mV 500mV 1000mV	$I_F=0.1\text{mA}$ $I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=30\text{mA}$ $I_F=100\text{mA}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	2.0µA	$V_R=25\text{V}$
Maximum Reverse Breakdown Voltage	$V_{BR}$	>30V	$I_R=100\mu\text{A}$
Reverse Recovery Time	$t_{rr}$	5ns(Max)	$I_F=10\text{mA}$ $I_R=10\text{mA}\sim 1.0\text{mA}$ , $R_L=100\text{OHM}$
Maximum Junction Capacitance	$C_J$	10pF	Measured at 1.0MHz, $V_R=1.0\text{V}$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# 200mW, 30 Volt Schottky Barrier Diode

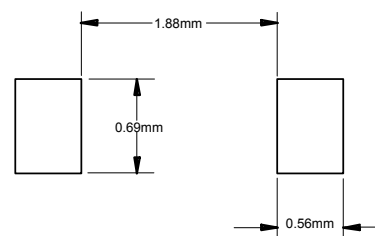
## SOD-323



### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

### Suggested Solder Pad Layout



## Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

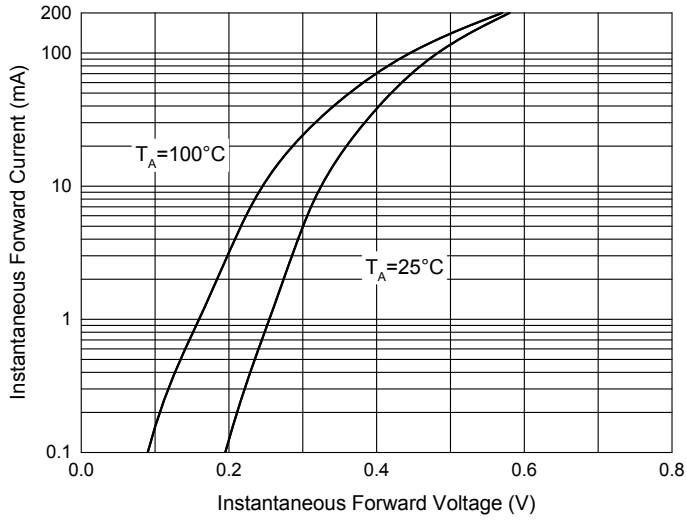


Fig. 2 - Typical Reverse Leakage Characteristics

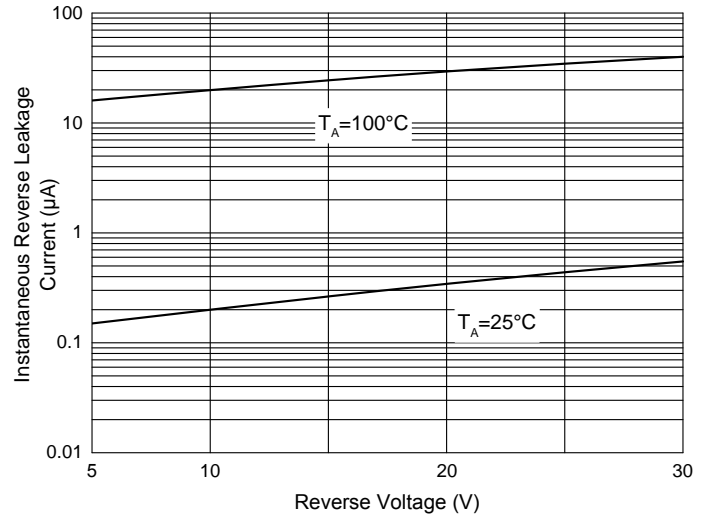
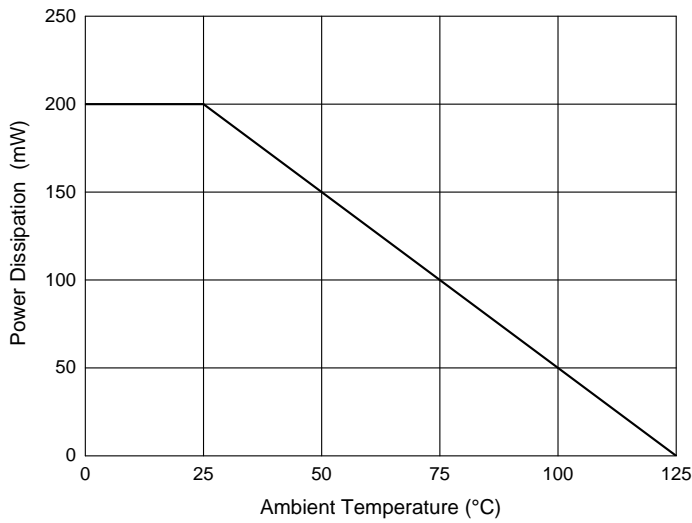


Fig. 3 - Power Derating Curve



## Ordering Information

Device	Packing
BAT54WSHE3-TP	Tape&Reel: 3Kpcs/Reel

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