

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Ultra-Small Surface Mount Package
- Low Forward Voltage Drop
- Extremely Fast Switching Speed
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisure Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2); 667°C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	DC Blocking Voltage V _R
BAT54WXHE3	30V	21V	30V

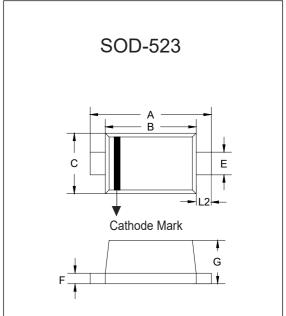
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Forward Continuous Current	I _F	200mA	
Forward Surge Current	I _{FSM}	3A	
Power Dissipation	P _D	150mW	T _A = 25°C
Max Forward Voltage	V _F	240mV 320mV 400mV 500mV 1000mV	I_F =0.1mA; I_F =1.0mA; I_F =10mA; I_F =30mA; I_F =100mA;
Max Reverse Current	I _R	2µA	V _R =25V
Min Reverse Breakdown Voltage	V _(BR)	30V	I _R =100μA
Max Junction Capacitance	Сл	10pF	Measured at 1.0MHz,V _R =1.0V
Max Reverse Recovery Time	t _{rr}	5ns	$I_F=I_R=10\text{mA}, I_{rr}=0.1\text{x}I_R,$ $R_L=100\Omega$

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

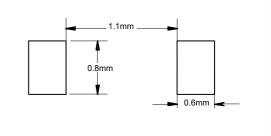
Note: 2. Part mounted on FR-4 board with recommended pad layout.

150mW, 30Volt Schottky Barrier Diode



DIMENSIONS							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.059	0.067	1.50	1.70			
В	0.043	0.051	1.10	1.30			
С	0.030	0.033	0.75	0.85			
Е	0.010	0.014	0.25	0.35			
F	0.003	0.008	0.08	0.20			
G	0.020	0.026	0.50	0.65			
L2	0.004	0.012	0.10	0.30			

Suggested Solder Pad Layout

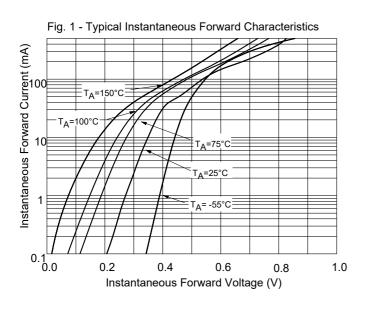


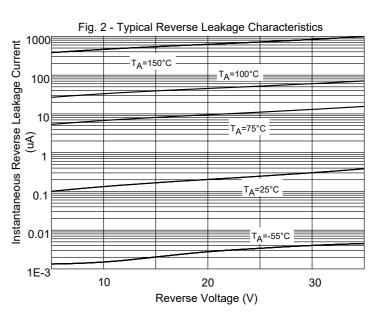


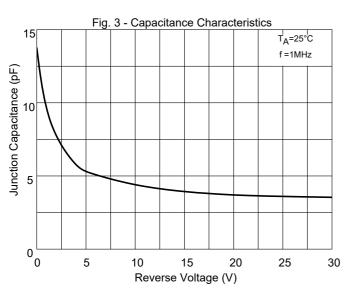
Internal Structure and Marking Code

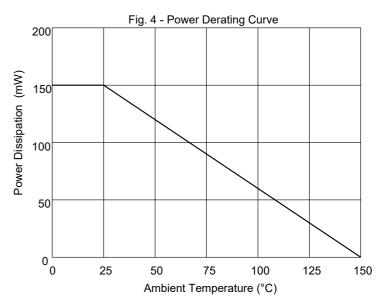


Curve Characteristics











Ordering Information

Device	Packing	
BAT54WXHE3-TP	Tape&Reel8Kpcs/Reel	

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