

Features

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

Maximum Ratings

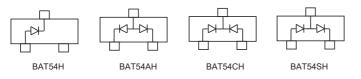
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 400°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAT54H	L1H	40V	40V
BAT54AH	L2H	40V	40V
BAT54CH	L3H	40V	40V
BAT54SH	L4H	40V	40V

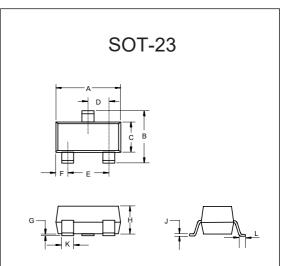
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	300mA	
Non-Repetitive Peak Forward Current	I _{FSM}	1.25A	t=10ms
Maximum Forward Voltage	V _F	240mV 320mV 400mV 500mV 900mV	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
Maximum Reverse Current	I _R	1μΑ 100μΑ	V _R =30V T _J =25°C V _R =30V T _J =100°C
Maximum Reverse Breakdown Voltage	V_{BR}	>40V	Ι _R =100μΑ
Maximum Junction Capacitance	CJ	10.0pF	Measured at 1.0MHz, V _R =1.0V
Maximum Reverse Recovery Time	t _{rr}	5.0ns	I _F =I _R =10mA; I _{rr} =0.1×I _R ,R _L =100Ω

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

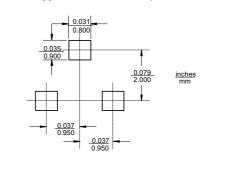






DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout





Curve Characteristics

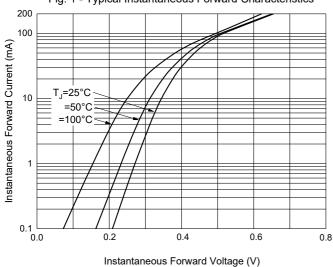
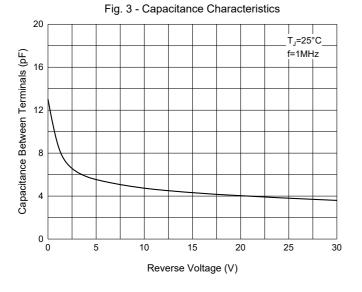
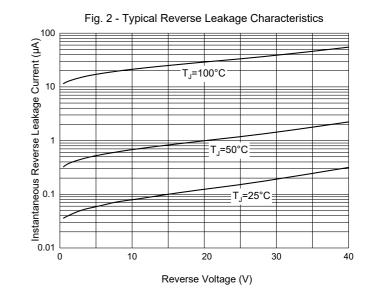


Fig. 1 - Typical Instantaneous Forward Characteristics







Rev.3-1-01132021



Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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