

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 +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2): 400°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	RMS Reverse Voltage V _{R(RMS)}	Maximum DC Blocking Voltage
BAT54	KL1	30V	21V	30V
BAT54A	KL2	30V	21V	30V
BAT54C	KL3	30V	21V	30V
BAT54S	KL4	30V	21V	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

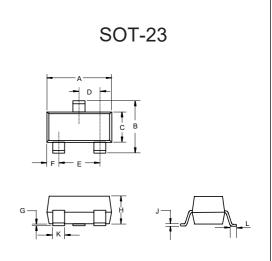
Average Forward Current	I _{F(AV)}	200mA	
Peak Forward Surge Current	I _{FSM}	600mA	t<1s
Power Dissipation	P _d	250mW	T _A = 25 °C
Maximum Forward Voltage	V _F	240mV 320mV 400mV 500mV 800mV	$I_F=0.1mA$ $I_F=1.0mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2μΑ	V _R = 25V
Minimum Reverse Breakdown Voltage	V _(BR)	30V	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.

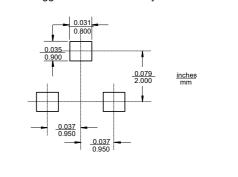
2. Device mounted on an 1inchx1inchx2oz copper FR4 PCB, single-sided copper,reference footprint

250mW,30V Schottky Barrier Diode



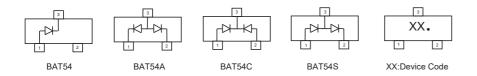
	DIMENSIONS						
DIM	INCHES		MM		NOTE		
Divi	MIN	MAX	X MIN N	MAX	NOTE		
A	0.110	0.120	2.80	3.04			
В	0.083	0.104	2.10	2.64			
С	0.047	0.055	1.20	1.40			
D	0.034	0.041	0.85	1.05			
E	0.067	0.083	1.70	2.10			
F	0.018	0.024	0.45	0.60			
G	0.0004	0.006	0.01	0.15			
Н	0.035	0.043	0.90	1.10			
J	0.003	0.007	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

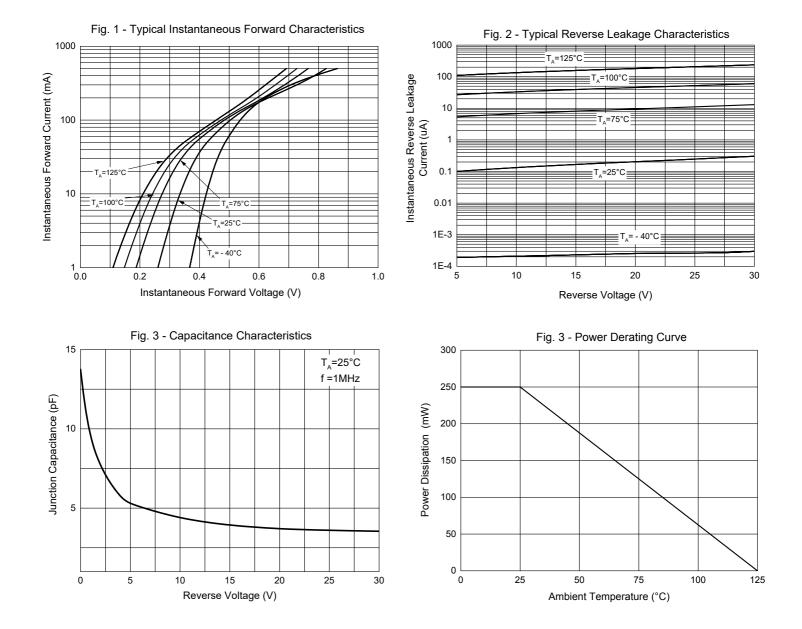




Internal Structure and Marking Code



Curve Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		
Part Number-13P	Tape&Reel: 10Kpcs/Reel		

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