

### **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 <sub>R(RMS)</sub>	Maximum DC Blocking Voltage
BAT54	KL1	30V	21V	30V
BAT54A	KL2	30V	21V	30V
BAT54C	KL3	30V	21V	30V
BAT54S	KL4	30V	21V	30V

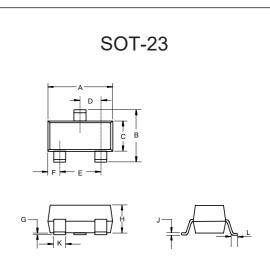
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	200mA	
Peak Forward Surge Current	I <sub>FSM</sub>	600mA	t<1s
Power Dissipation	P <sub>d</sub>	250mW	T <sub>A</sub> = 25 °C
Maximum Forward Voltage	V <sub>F</sub>	240mV 320mV 400mV 500mV 800mV	I <sub>F</sub> =0.1mA I <sub>F</sub> =1.0mA I <sub>F</sub> =10mA I <sub>F</sub> =30mA I <sub>F</sub> =100mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2μΑ	V <sub>R</sub> = 25V
Minimum Reverse Breakdown Voltage	V <sub>(BR)</sub>	30V	I <sub>R</sub> =100μA
Maximum Junction Capacitance	CJ	10.0pF	Measured at 1.0MHz, V <sub>R</sub> =1.0V
Maximum Reverse Recovery Time	t <sub>rr</sub>	5.0ns	$I_F=I_R=10$ mA; $I_{rr}=0.1\times I_R, R_L=100\Omega$

#### Note:

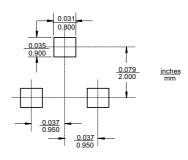
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- Device mounted on an 1inchx1inchx2oz copper FR4 PCB, single-sided copper,reference footprint

# 250mW,30V Schottky Barrier Diode



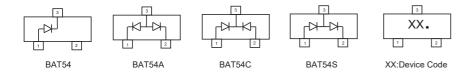
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012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

## Suggested Solder Pad Layout

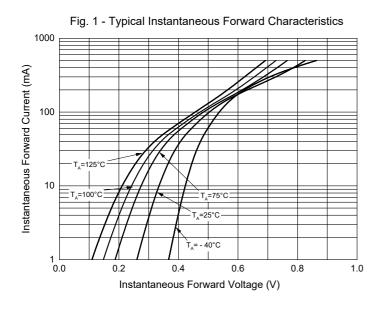


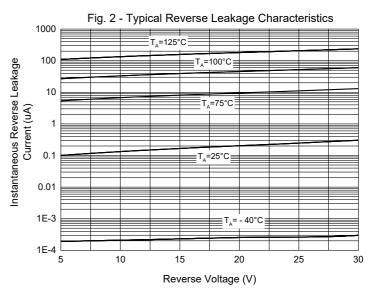


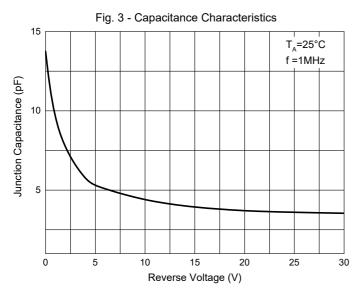
### **Internal Structure and Marking Code**

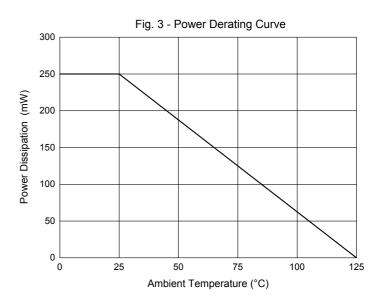


### **Curve Characteristics**











# **Ordering Information**

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

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