



**Micro Commercial Components**™ Micro Commercial Components  
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# BAT54T THRU BAT54ST

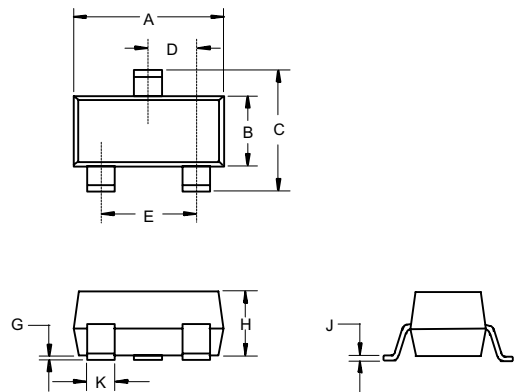
## Features

- Ultra-Small Surface Mount Package
- Low Forward Voltage Drop
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

**150mWatt, 30Volt  
Schottky Barrier Diode**

MCC Part Number	Device Marking	Type	Pin Configuration
BAT54T	L1	Single	Figure 1
BAT54AT	L2	Dual	Figure 2
BAT54CT	L3	Dual	Figure 3
BAT54ST	L4	Dual	Figure 4

## SOT-523



## Maximum Ratings

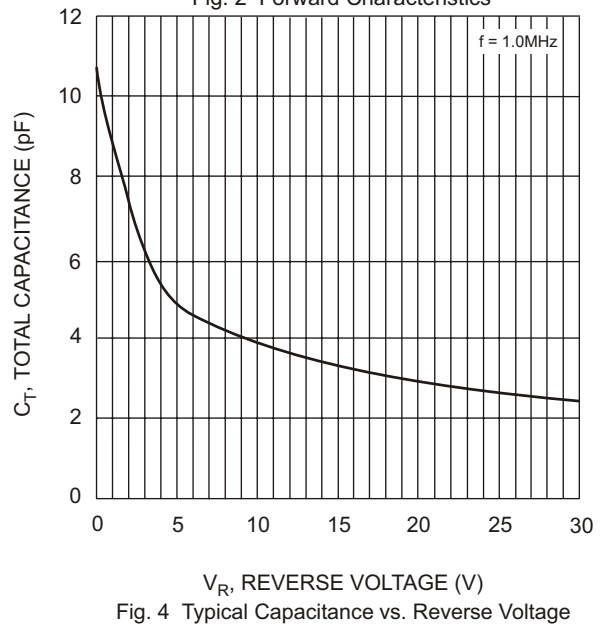
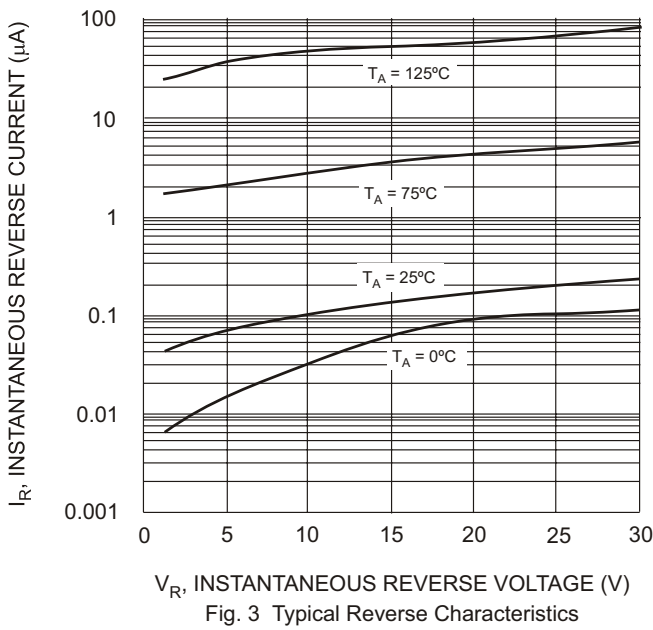
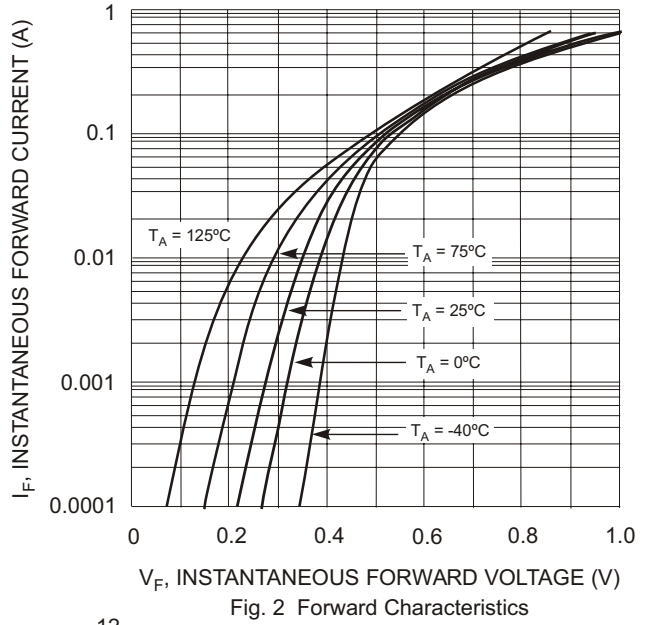
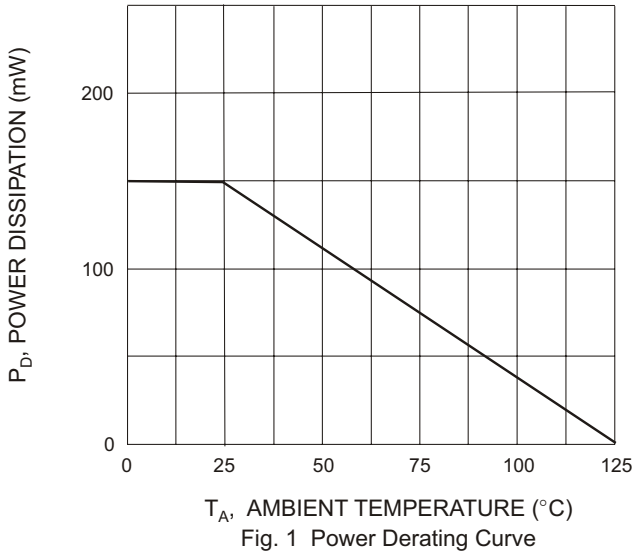
DC Blocking Voltage	$V_R$	30V
Average Rectified Output Current	$I_O$	200mA
Repetitive Peak Forward Current	$I_{FRM}$	300mA
Non-Repetitive Peak Forward Current $t < 1s$	$I_{FSM}$	600mA
Total Power Dissipation @ $T_A = 25^\circ C$	$P_D$	150mW
Storage Temperature Range	$T_{stg}$	$-65^\circ C$ to $125^\circ C$
Junction Temperature	$T_j$	$-65^\circ C$ to $125^\circ C$
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	<b>667°C/W</b>

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Max.	Notes
Forward Voltage	$V_F$	240mV	$I_F = 0.1mA$
		320mV	$I_F = 1mA$
		400mV	$I_F = 10mA$
		500mV	$I_F = 30mA$
		1000mV	$I_F = 100mA$
Reverse Current	$I_R$	2 $\mu A$	$V_R = 25V$
Reverse Breakdown Voltage	$V_{(BR)}$	>30V	$I_R = 100\mu A$
Total Capacitance	$C_T$	10pF	Measured at 1.0MHz, $V_R = 1.0V$
Reverse Recovery Time	$t_{rr}$	5nS	$I_F = 10mA$ ; $I_R = 10mA \sim 1.0mA$ , $R_L = 100 \Omega$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50 Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

BAT54T thru BAT54ST



Pin Configuration - Top View

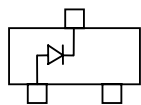


Figure 1

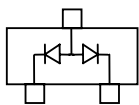


Figure 2

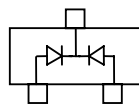


Figure 3

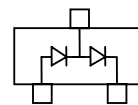


Figure 4



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## Ordering Information

Device (Part Number)-TP	Packing Tape&Reel;3Kpcs/Reel
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