

**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
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

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

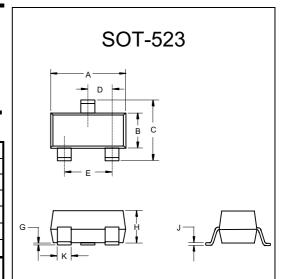
# **Maximum Ratings**

DC Blocking Voltage	$V_R$	30V
Average Rectified Output Current	Io	200mA
Repetitive Peak Forward Current	$I_{FRM}$	300mA
Non-Repetitive Peak Forward Current t<1s	I <sub>FSM</sub>	600mA
Total Power Dissipation @ T <sub>A</sub> = 25°C	$P_{D}$	150mW
Storage Temperature Range	T <sub>stg</sub>	-65°C to 125°C
Junction Temperature	Tj	-65°C to 125°C
Thermal Resistance Junction to Ambient	R <sub>θ</sub> JA	667°C/W

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Max.	Notes	
Forward Voltage	V <sub>F</sub>	240mV 320mV 400mV 500mV 1000mV	$I_F = 0.1\text{mA}$ $I_F = 1\text{mA}$ $I_F = 10\text{mA}$ $I_F = 30\text{mA}$ $I_F = 100\text{mA}$	
Reverse Current	$I_R$	2μΑ	V <sub>R</sub> = 25V	
Reverse Breakdown Voltage	$V_{(BR)}$	>30V	I <sub>R</sub> =100uA	
Total Capacitance	$C_{T}$	10pF	Measured at 1.0MHz, V <sub>R</sub> =1.0V	
Reverse Recovery Time	t <sub>rr</sub>	5nS	IF = 10mA; IR = 10mA ~1.0mA, RL = 100 Ω	

# 150mWatt, 30Volt Schottky Barrier Diode



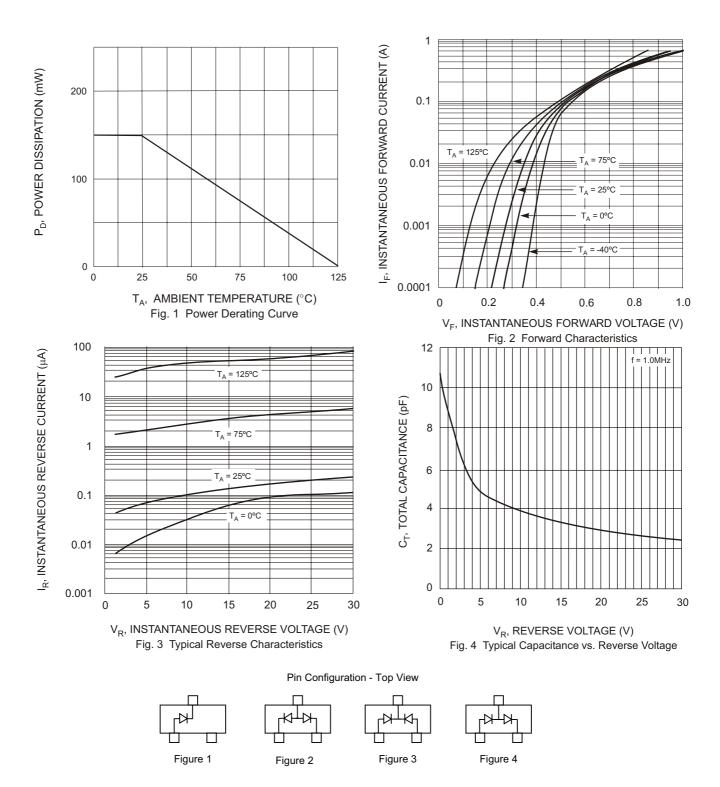
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.030	.033	0.75	0.85	
С	.057	.069	1.45	1.75	
D	.020 Nominal		0.50Nominal		
Е	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
Н	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.006	.014	.15	.35	

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#### BAT54T thru BAT54ST





## Ordering Information:

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

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