

Features

- Ultra-Small Surface Mount Package
- Low Forward Voltage Drop
- PN Junction Guard Ring for Transient and ESD Protection
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

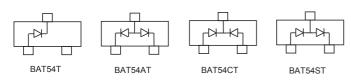
- Operating Junction Temperature Range: -65°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance:667°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAT54T	L1	30V	30V
BAT54AT	L2	30V	30V
BAT54CT	L3	30V	30V
BAT54ST	L4	30V	30V

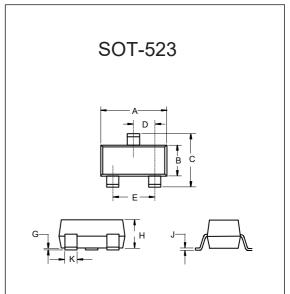
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Reverse Breakdown Voltage	V _(BR)	>30V	I _R = 100μA
Average Forward Current	I _F	200mA	
Power Dissipation	P_d	150mW	
Peak Forward Surge Current	I _{FSM}	600mA	t<1s
Repetitive Peak Forward Current	I _{FRM}	300mA	
Maximum Forward Voltage	V _F	240mV 320mV 400mV 500mV 1000mV	I_F =0.1mA I_F =1.0mA I_F =30mA I_F =100mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2μΑ	V _R = 25V
Maximum Total Capacitance	Ст	10.0pF	Measured at 1.0MHz, V _R =1.0V
Maximum Reverse Recovery Time	t _{rr}	5nS	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R,$ $R_L = 100 \Omega$

Internal Structure:

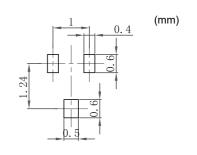


150mW,30V Schottky Barrier Diode



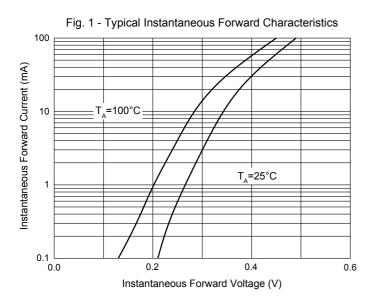
DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.020 1	lominal	0.50 N	ominal	
Е	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
K	0.006	0.014	0.15	0.35	

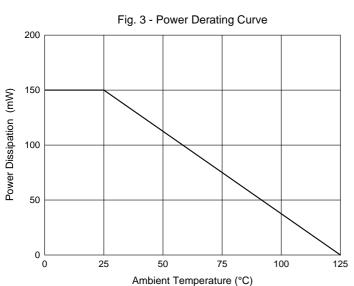
Suggested Solder Pad Layout

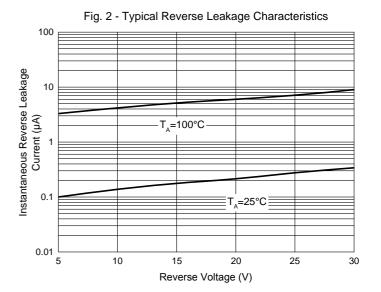




Curve Characteristics







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Ordering Information

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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