



THE DATASHEET OF BAT54L2-TP



Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Ultra-Small Surface Mount Package
- Low Forward Voltage Drop
- Extremely Fast Switching Speed
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)

Maximum Ratings

- Operating Junction Temperature Range: 125°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance; 625°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
BAT54L2	L91	30V	21V	30V

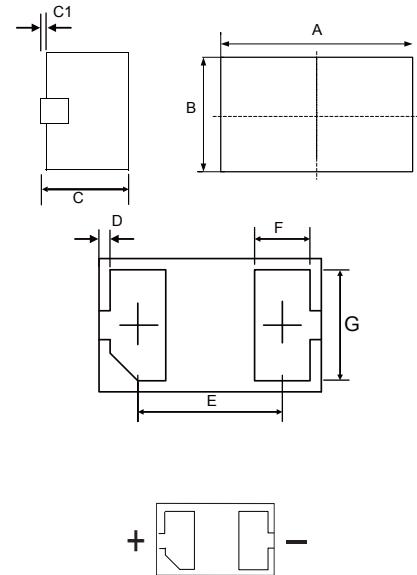
Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current	I_F	200mA	
Repetitive Peak Forward Current	I_{FRM}	300mA	
Forward Surge Current	I_{FSM}	600mA	
Power Dissipation	P_D	160mW	$T_A = 25^\circ C$
Forward Voltage	V_F	240mV 320mV 400mV 500mV 1000mV	$I_F=0.1mA;$ $I_F=1.0mA;$ $I_F=10mA;$ $I_F=30mA;$ $I_F=100mA;$
Reverse Current	I_R	2μA	$V_R=25V$
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	$I_F = 10mA ;$ $I_R = 10mA \sim 1.0mA;$ $R_L = 100\Omega$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**160mWatt, 30Volt
Schottky Barrier
Diode**

DFN1006-2L



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.037	0.041	0.95	1.05	
B	0.022	0.026	0.55	0.65	
C	0.016	0.020	0.40	0.50	
C1	-----	0.002	-----	0.05	
D	0.001	0.003	0.02	0.08	
E	0.026BSC		0.65BSC		
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

Curve Characteristics

Fig. 1 - Forward Characteristics

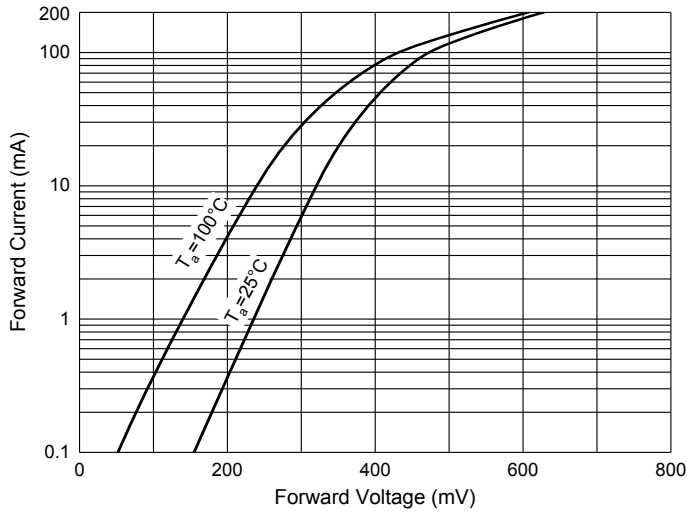


Fig. 2 - Reverse Characteristics

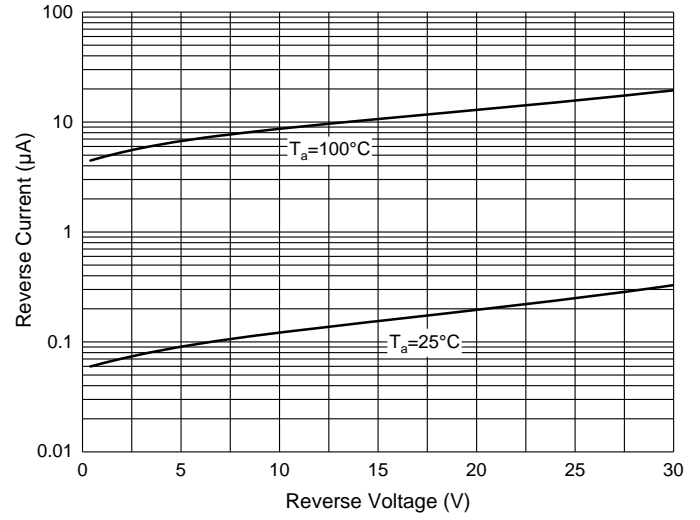


Fig. 3 - Capacitance Characteristics

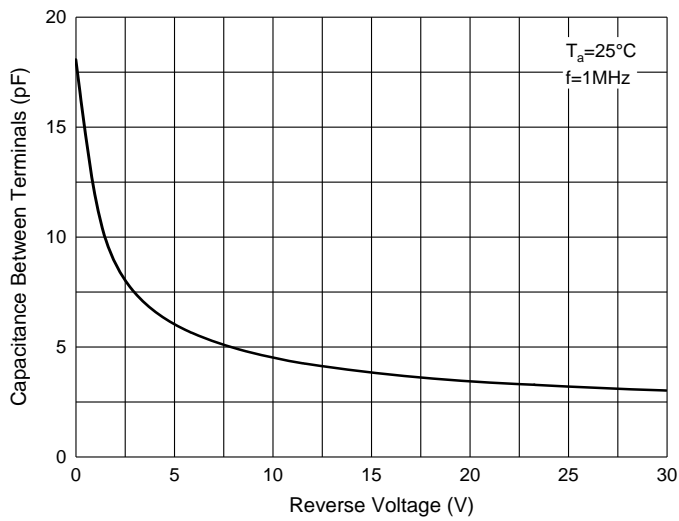
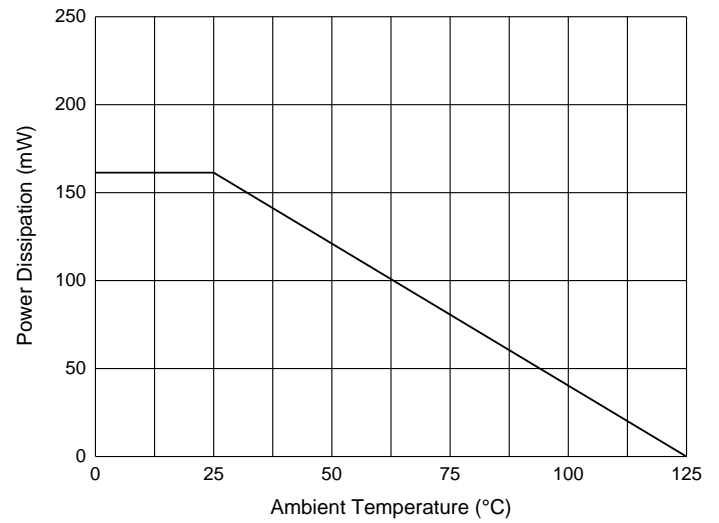


Fig. 4 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel;10Kpcs/Reel

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