

## 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 Available Upon Request By Adding Suffix "-HF"

## Maximum Ratings

- Operating Junction Temperature Range: 125°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 625°C/W Junction To Ambient

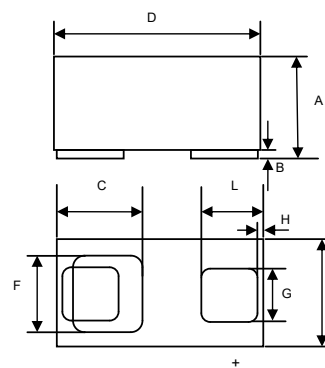
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAT54LP	L9	30V	21V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Output Current	$I_O$	100mA	
Forward Continuous Current	$I_F$	200mA	
Repetitive Peak Forward Current	$I_{FRM}$	300mA	
Forward Surge Current	$I_{FSM}$	600mA	
Power Dissipation	$P_D$	200mW	$T_A = 25^\circ\text{C}$
Forward Voltage	$V_F$	240mV 320mV 400mV 500mV 1000mV	$I_F=0.1\text{mA};$ $I_F=1.0\text{mA};$ $I_F=10\text{mA};$ $I_F=30\text{mA};$ $I_F=100\text{mA};$
Reverse Current	$I_R$	2 $\mu\text{A}$	$V_R=25\text{V}$
Reverse Breakdown Voltage	$V_{(BR)}$	>30V	$I_R = 100\mu\text{A}$
Total Capacitance	$C_T$	10pF	Measured at 1.0MHz, $V_R=1.0\text{V}$
Reverse Recovery Time	$t_{rr}$	5ns	$I_F = 10\text{mA};$ $I_R = 10\text{mA} \sim 1.0\text{mA},$ $R_L = 100\Omega$

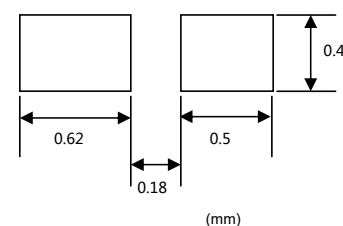
# 200mWatt, 30Volt Schottky Barrier Diode

## SOD-882



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.003	0.01	0.07	
C	0.019	REF.	0.470	REF.	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.017	REF.	0.420	REF.	
G	0.011	0.015	0.27	0.37	
H	0.001	REF.	0.030	REF.	
L	0.013	0.017	0.34	0.44	

### Suggested Solder Pad Layout



**Curve Characteristics**

Fig. 1 - Forward Characteristics

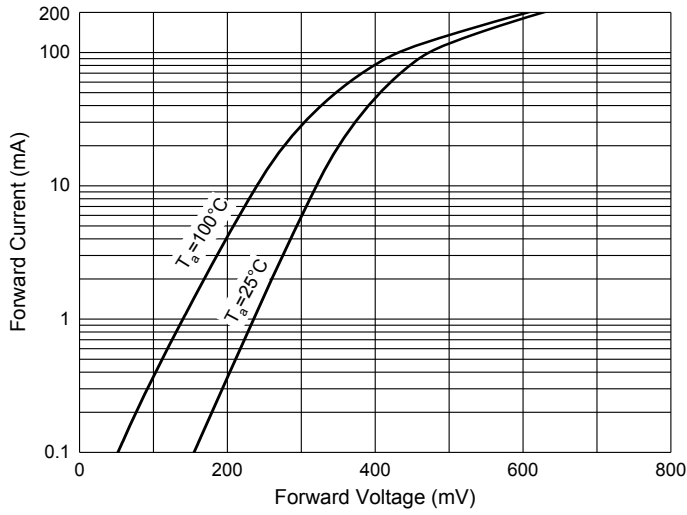


Fig. 2 - Reverse Characteristics

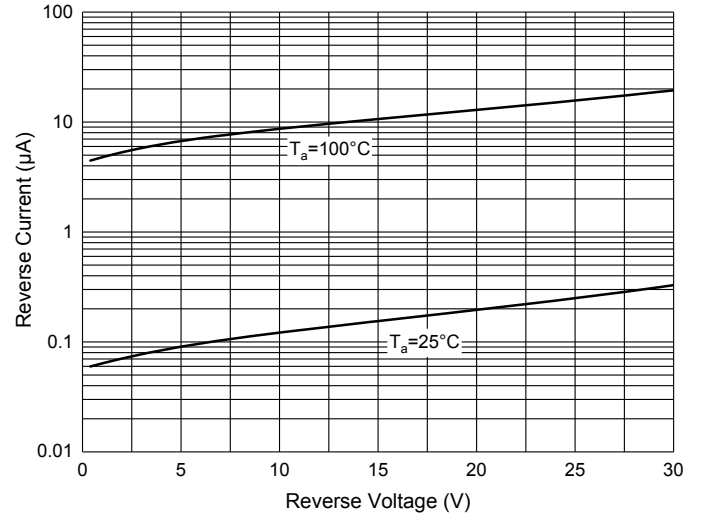


Fig. 3 - Capacitance Characteristics

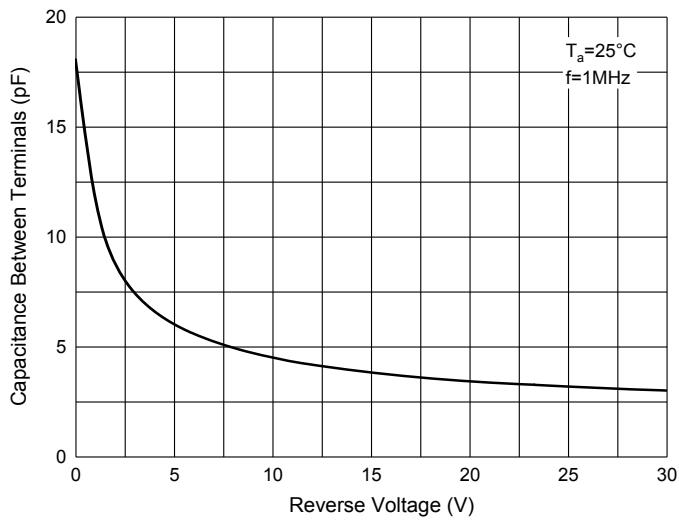
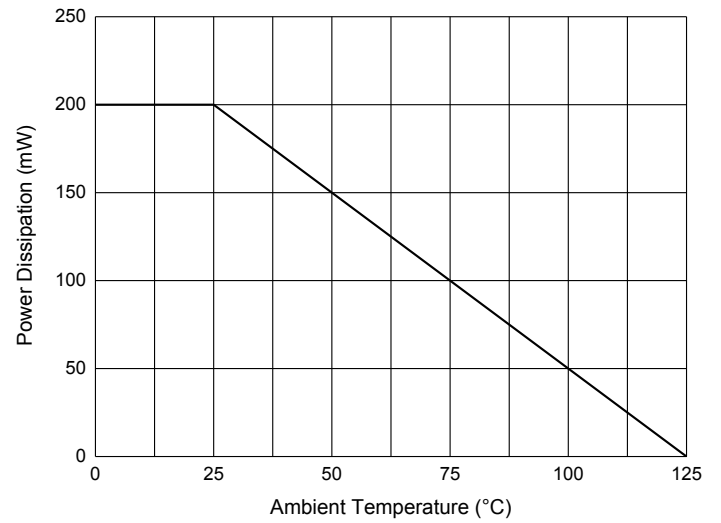


Fig. 4 - Power Derating Curve



## Ordering Information

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

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

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