

### **Features**

- Extremely-Fast Switching Speed
- Low Forward Voltage Drop
- 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)

# 200mW, 30Volt Schottky Barrier Diode

## **Maximum Ratings**

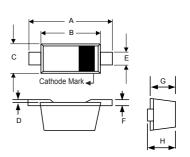
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
BAT54WX	JV	30V	21V	30V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

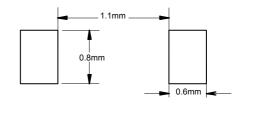
Average Forward Current	I <sub>F</sub>	200mA	
Peak Forward Surge Current	I <sub>FSM</sub>	600mA	t<1s
Repetitive peak forward current	I <sub>FRM</sub>	300mA	
Power Dissipation	P <sub>d</sub>	200mW	
Reverse Breakdown Voltage	V <sub>(BR)</sub>	30V(Min)	IR=10µA
Maximum Forward Voltage	V <sub>F</sub>	0.24V 0.50V 0.80V 0.32V 0.40V	IF=0.1mA IF=30mA IF=100mA IF=1.0mA IF=10mA
DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2µA(Max)	V <sub>R</sub> = 25V
Maximum Junction Capacitance	Ст	10pF	VR=1V, f=1MHZ
Maximum Reverse Recovery Time	t <sub>rr</sub>	5.0ns	$I_F$ =10mA, $I_R$ =10mA to 1mA , $R_L$ =100 $\Omega$

## SOD-523



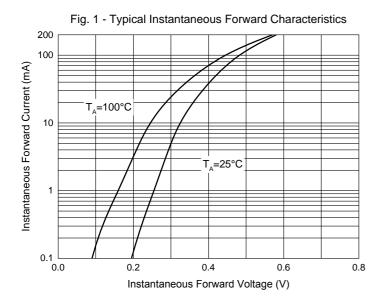
DIMENSIONS					
DIM	INCHES		MM		NOTE
וווט	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
D	0.001	0.003	0.01	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.028	0.50	0.70	
Н	0.020	0.031	0.51	0.77	

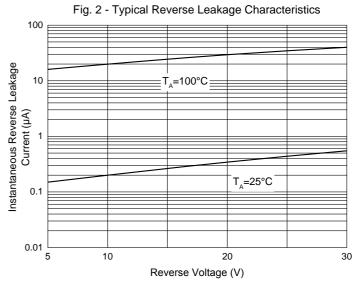
#### Suggested Solder Pad Layout

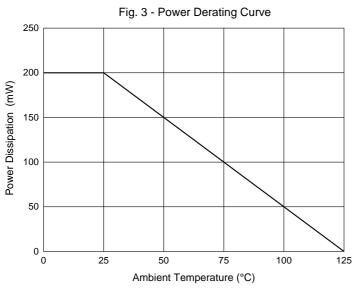




## **Curve Characteristics**









## **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 8Kpcs/Reel	

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

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