

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

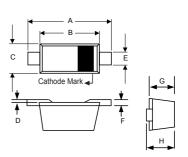
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

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

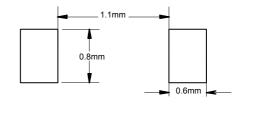
Average Forward Current	I _F	200mA	
Peak Forward Surge Current	I _{FSM}	600mA	t<1s
Repetitive peak forward current	I _{FRM}	300mA	
Power Dissipation	P _d	200mW	
Reverse Breakdown Voltage	V _(BR)	30V(Min)	IR=10µA
Maximum Forward Voltage	V _F	0.24V 0.50V 0.80V 0.32V 0.40V	IF=0.1mA IF=30mA IF=100mA IF=1.0mA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

SOD-523



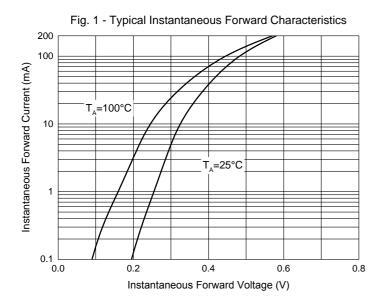
DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.059	0.067	1.50	1.70				
В	0.043	0.051	1.10	1.30				
С	0.030	0.033	0.75	0.85				
D	0.001	0.003	0.01	0.07				
Е	0.010	0.014	0.25	0.35				
F	0.003	0.006	0.08	0.15				
G	0.020	0.028	0.50	0.70				
Н	0.020	0.031	0.51	0.77				

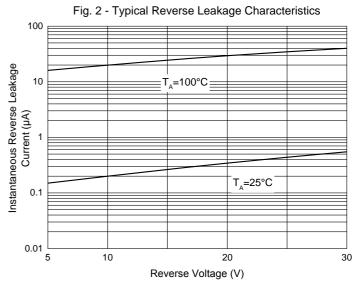
Suggested Solder Pad Layout

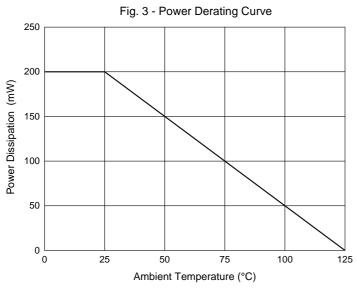




Curve Characteristics









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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