

Features

- Low Turn-on Voltage and Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 200°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage	
BAT54W	L9	30V	21V	30V	

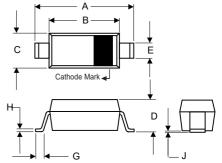
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	200mA	
Peak Forward Surge Current	I _{FSM}	600mA	t=8.3ms
Power Dissipation	P _d	500mW	T _J = 25 °C
Maximum 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
DC Reverse Current At Rated DC Blocking Voltage	I _R	2.0μΑ	V _R = 25V
Reverse Breakdown Voltage	V _{BR}	>30V	I _R =100μA
Typical Junction Capacitance	Ст	10pF	Measured at 1.0MHz, V _R =0.0V
Maximum Reverse Recovery Time	t _{rr}	5ns	I_F =10mA, I_R =10mA~1.0mA, R_L =100 Ω .

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

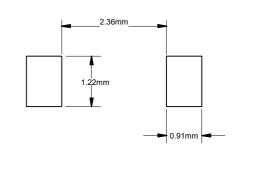
500mW, 30Volt Schottky Barrier Diode





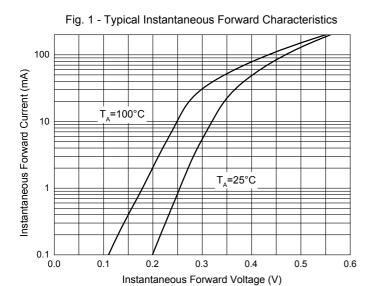
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
E	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

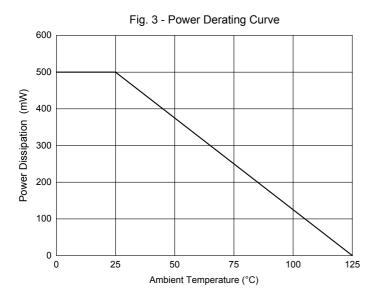
Suggested Solder Pad Layout

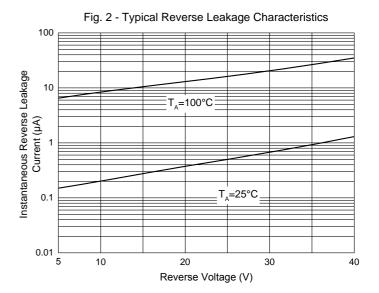




Curve Characteristics









Ordering Information

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

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