

Features

- High Breakdown Voltage
- Low Turn-on Voltage
- Guard Ring Construction For Transient Protection
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note 2): 500°C/W Junction to Ambient Air

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT46W	S9	100V	70V	100V

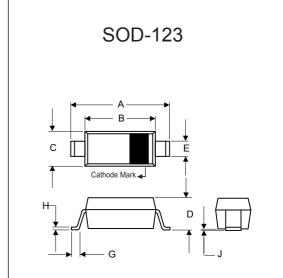
Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward DC Current	I _F	150mA	
Average Rectified Output Current	I _O	75mA	
Repetitive Peak Forward Current	I _{FRM}	350mA	t _p <1.0s, Duty Cycle<50%
Forward Surge Forward Current	I _{FSM}	750mA	t _p =10ms
Power Dissipation	P _D	200mW	
Reverse Breakdown Voltage	V _{(BR)R}	100V(Min)	I _R =100μAdc
Forward Voltage	V _F	0.25V(Max) 0.45V(Max) 1.0V(Max)	I _F =0.1mA I _F =10mA I _F =250mA
Leakage Current	I _R	0.8μA(Max) 2μA(Max) 5μA(Max)	V _R =10V V _R =50V V _R =75V
Typical Junction Capacitance	Ст	10pF(Typ) 6.0pF(Typ)	V _R =0, f=1.0MHz V _R =1.0, f=1.0MHz

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

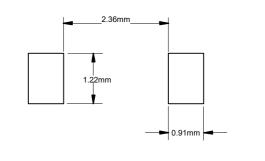
Notes: 2. Valid provided that electrodes are kept at ambient temperature

200mW Schottky Diode 100 Volts



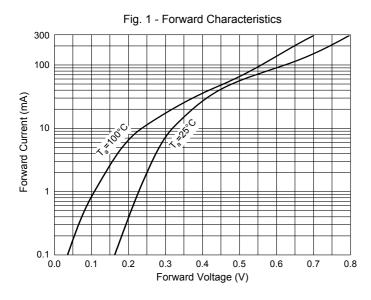
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.140	0.152	3.55	3.85			
В	0.100	0.112	2.55	2.85			
С	0.055	0.071	1.40	1.80			
D		0.053		1.35			
E	0.018	0.026	0.45	0.65			
G	0.006		0.15				
Н		0.010		0.25			
J		0.006		0.15			

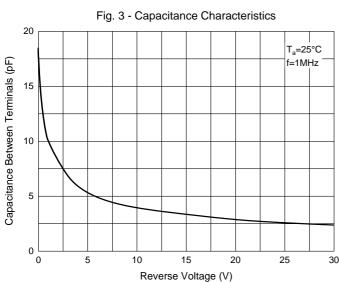
Suggested Solder Pad Layout

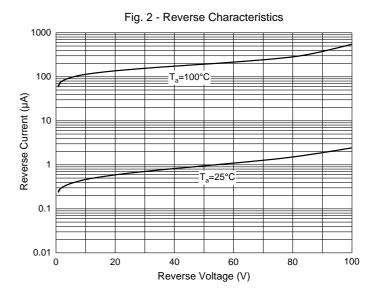


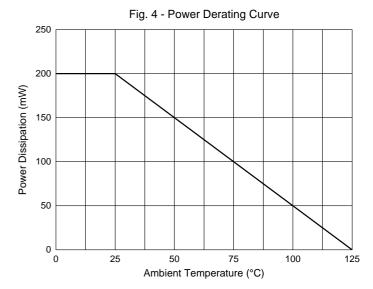


Curve Characteristics











Ordering Information

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

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