

### 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

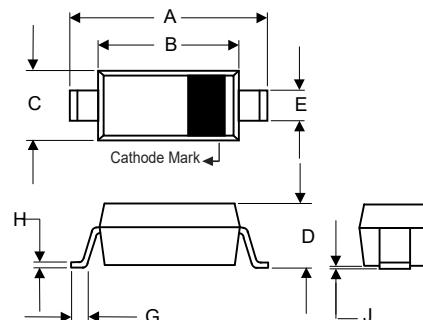
Forward DC Current	$I_F$	150mA	
Average Rectified Output Current	$I_O$	75mA	
Repetitive Peak Forward Current	$I_{FRM}$	350mA	$t_p < 1.0s$ , Duty Cycle < 50%
Forward Surge Forward Current	$I_{FSM}$	750mA	$t_p = 10ms$
Power Dissipation	$P_D$	200mW	
Reverse Breakdown Voltage	$V_{(BR)R}$	100V(Min)	$I_R = 100\mu A$
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	$I_R$	0.8 $\mu A$ (Max) 2 $\mu A$ (Max) 5 $\mu A$ (Max)	$V_R = 10V$ $V_R = 50V$ $V_R = 75V$
Typical Junction Capacitance	$C_T$	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

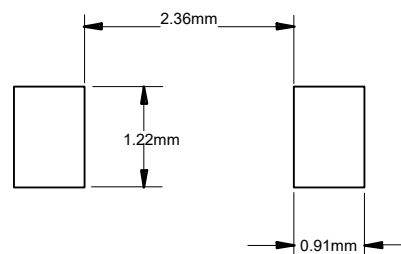
# 200mW Schottky Diode 100 Volts

## SOD-123



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.140	0.152	3.55	3.85	
B	0.100	0.112	2.55	2.85	
C	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	----	
H	----	0.010	----	0.25	
J	----	0.006	----	0.15	

### Suggested Solder Pad Layout



**Curve Characteristics**

Fig. 1 - Forward Characteristics

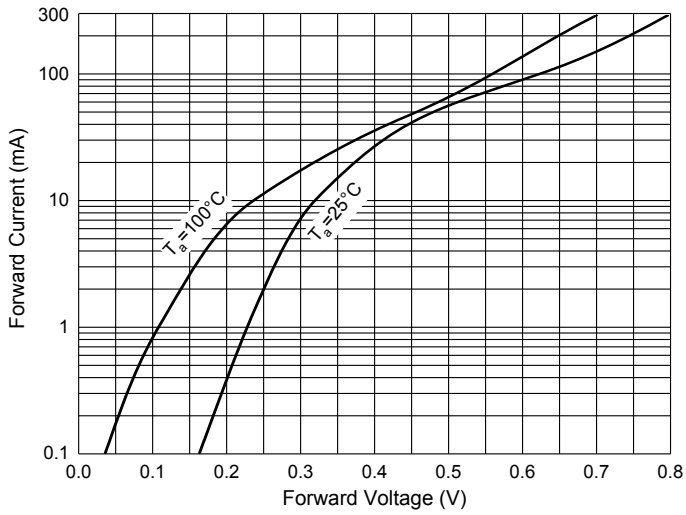


Fig. 2 - Reverse Characteristics

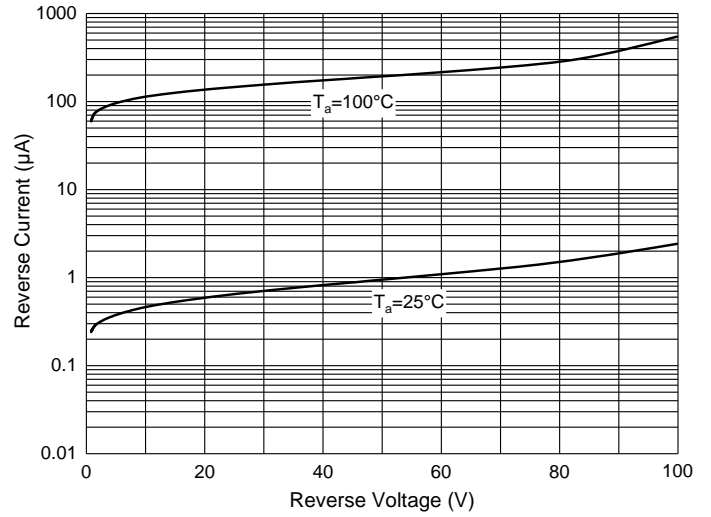


Fig. 3 - Capacitance Characteristics

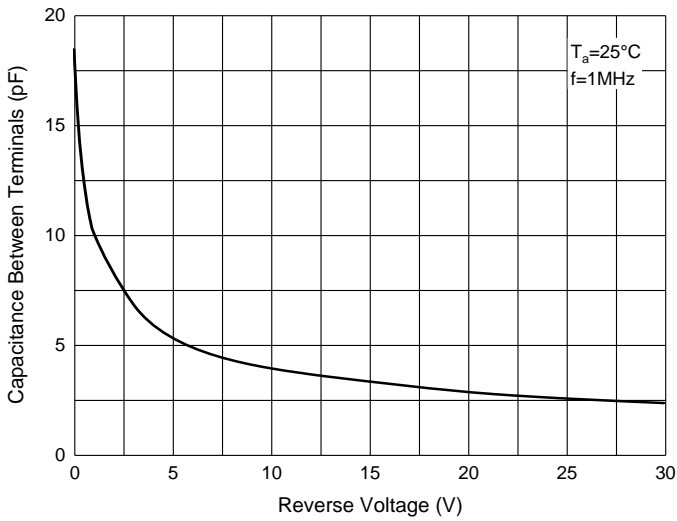
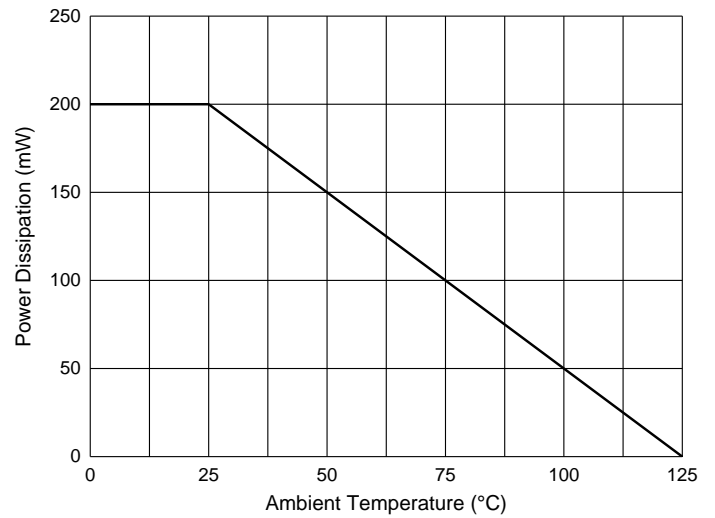


Fig. 4 - Power Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel
Part Number-13P	Tape&Reel: 10Kpcs/Reel

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