

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 Available Upon Request By Adding Suffix "-HF"
- 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 1): 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

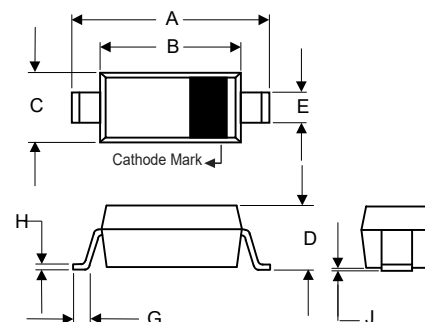
Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward DC Current	I_F	150mA	
Average Rectified Output Current	I_O	75mA	
Power Dissipation	P_D	200mW	
Reverse Breakdown Voltage	$V_{(BR)R}$	100V(Min)	$I_R=100\mu A_{dc}$
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 μA (Max) 2 μA (Max) 5 μA (Max)	$V_R=10V$ $V_R=50V$ $V_R=75V$
Typical Junction Capacitance	C_T	10pF(Typ) 6.0pF(Typ)	$V_R=0, f=1.0MHz$ $V_R=1.0, f=1.0MHz$

Notes: 1. Valid provided that electrodes are kept at ambient temperature

200mW Schottky Diode 100 Volts

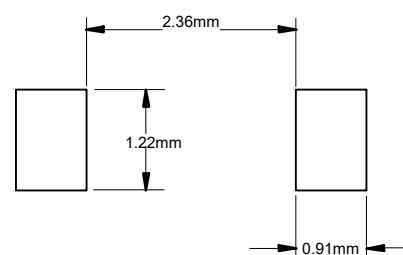
SOD-123



DIMENSIONS

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

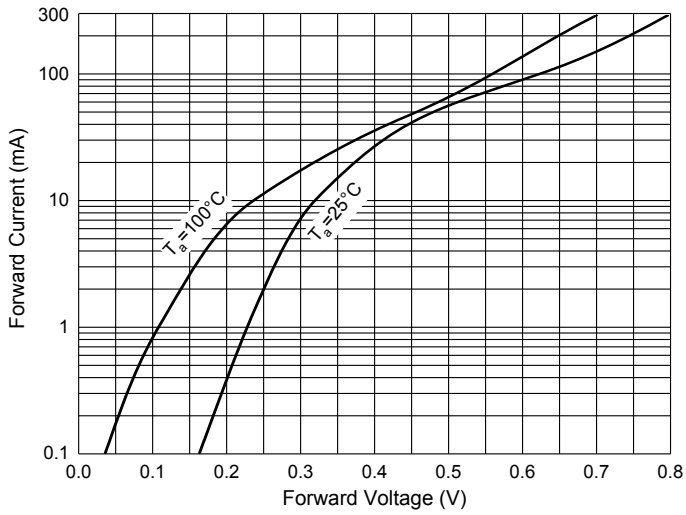


Fig. 2 - Reverse Characteristics

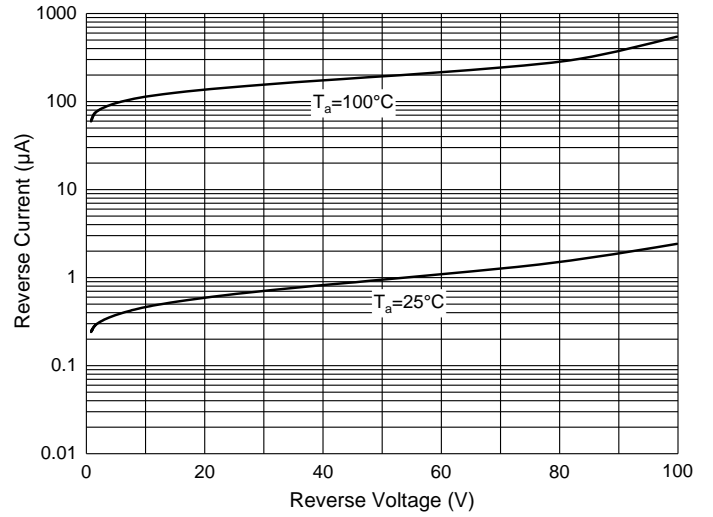


Fig. 3 - Capacitance Characteristics

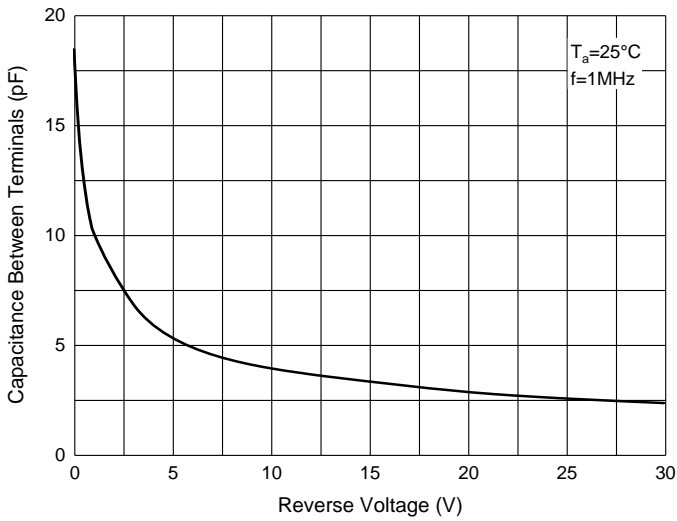
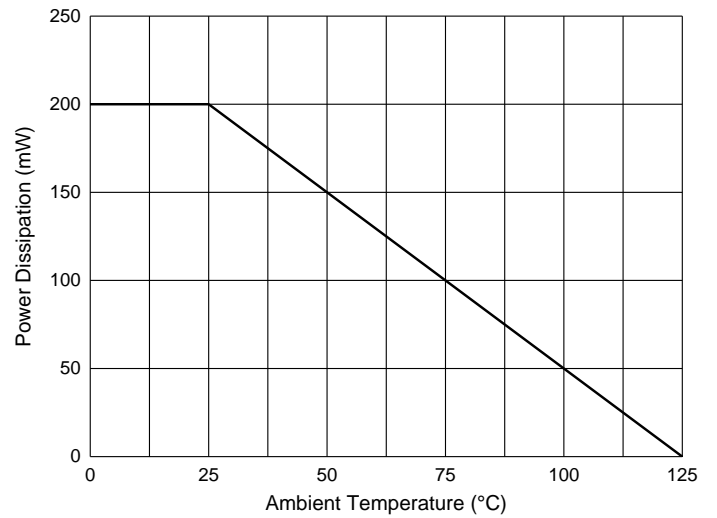


Fig. 4 - Power Derating Curve



Ordering Information

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

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

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