

BAT46W

200mW
Schottky Diode
100 Volts

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"

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: S9/L6

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	100	V
I_F	Forward DC Current	150	mA
I_o	Average Rectified Output Current at	75	mA
P_D	Power Dissipation	200	mW
R_{JA}	Thermal Resistance Junction to Ambient Air ⁽¹⁾	500	°C/W
T_J	Junction Temperature	-55 to +125	°C
T_{STG}	Storage Temperature	-55 to +150	°C

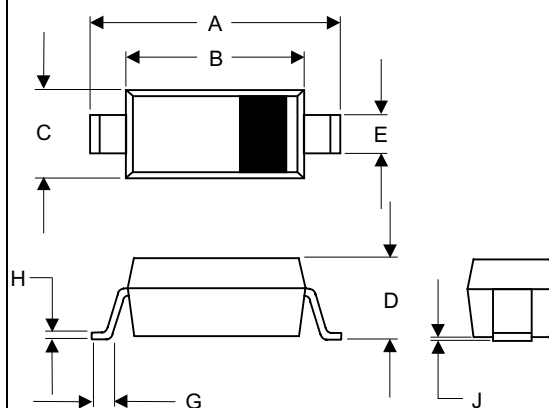
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)R}$	Reverse Breakdown Voltage ($I_R=100\mu A$)	100	---	---	V
V_F	Forward Voltage $I_F=0.1mA$ $I_F=10mA$ $I_F=250mA$	---	---	0.25 0.45 1	V
I_R	Leakage Current ($V_R=10Vdc$) ($V_R=50Vdc$) ($V_R=75Vdc$)	---	---	0.8 2 5	μA
C_T	Total Capacitance ($V_R=0$, $f=1.0MHz$) ($V_R=1.0$, $f=1.0MHz$)	---	10.0 6.0	---	pF

Notes:

1. Valid provided that electrodes are kept at ambient temperature

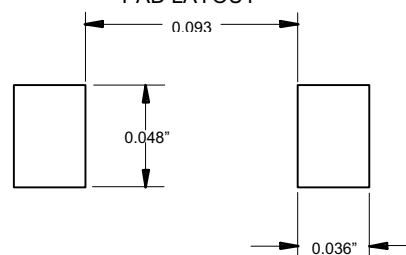
SOD123



DIMENSIONS

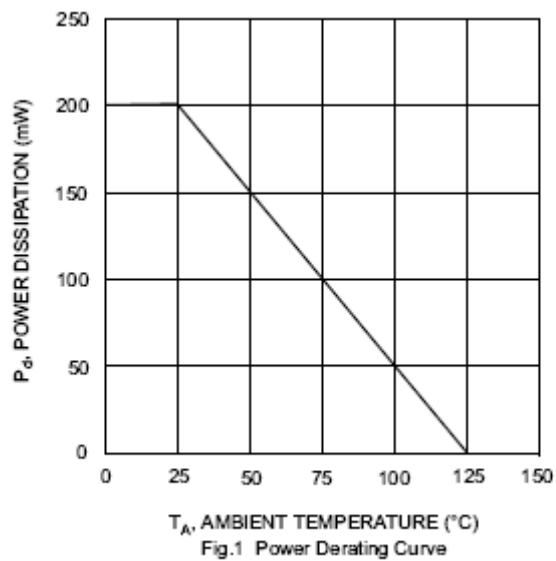
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	----	.053	----	1.35	
E	.012	.031	0.30	0.78	
G	.006	----	0.15	----	
H	----	.01	----	0.25	
J	----	.006	----	0.15	

SUGGESTED SOLDER PAD LAYOUT



BAT46W

Typical Characteristics



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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