

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 |

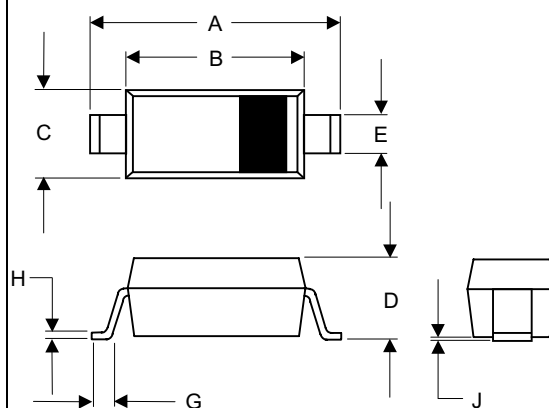
Electrical Characteristics @ 25°C Unless Otherwise Specified

| 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

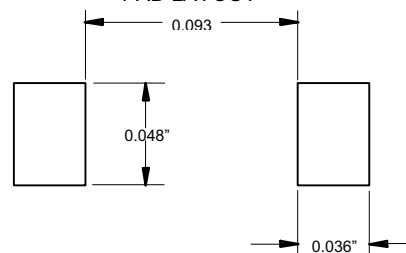
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DIMENSIONS

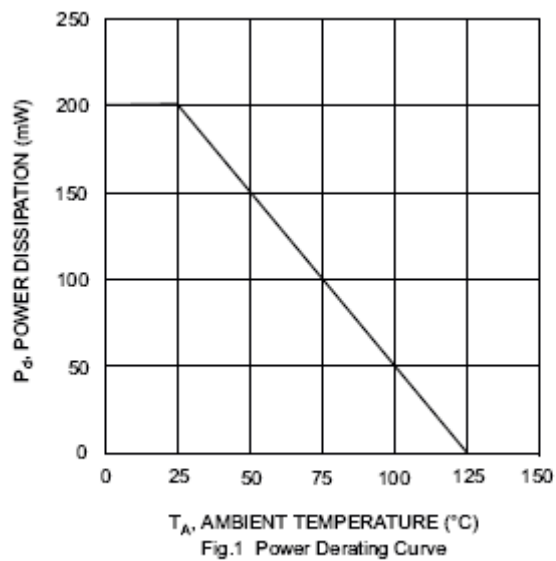
| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .140 | .152 | 3.55 | 3.85 | |
| B | .100 | .112 | 2.55 | 2.85 | |
| C | .055 | .071 | 1.40 | 1.80 | |
| D | ---- | .053 | ---- | 1.35 | |
| E | .012 | .031 | 0.30 | 0.78 | |
| G | .006 |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