



BAV116W

350mW
SWITCHING DIODE
130 Volts

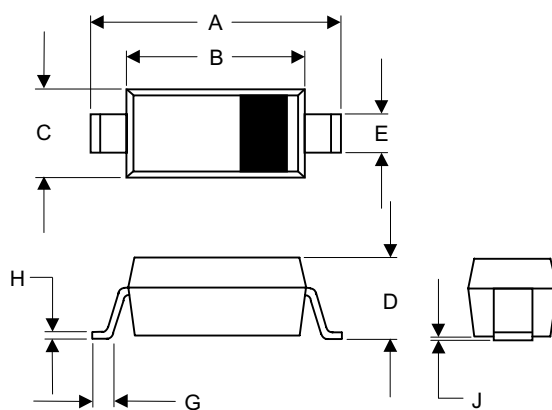
Features

- Low Leakage Current Applications
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:XX

Maximum Ratings

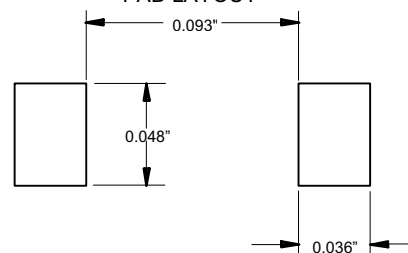
| Symbol | Rating | Rating | Unit |
|-----------|---|-------------|------|
| V_R | DC Blocking Voltage | 130 | V |
| V_{RM} | Non-Repetitive Peak Reverse Voltage | 130 | V |
| I_{FM} | Forward Continuous Current | 500 | mA |
| I_O | Average Rectified Output Current | 215 | mA |
| I_{FSM} | Non-Repetitive Peak Forward Surge Current @t=8.3ms | 1.0 | A |
| P_d | Power Dissipation | 350 | mW |
| T_J | Junction Temperature | -55 to +150 | °C |
| T_{STG} | Storage Temperature | -55 to +150 | °C |

SOD123



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | 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 | .78 | |
| G | .006 | ----- | 0.15 | ----- | |
| H | ----- | .01 | ----- | .25 | |
| J | ----- | .006 | ----- | .15 | |

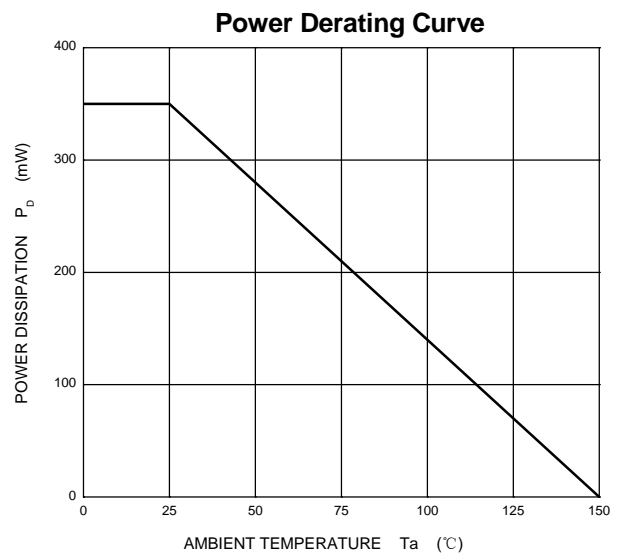
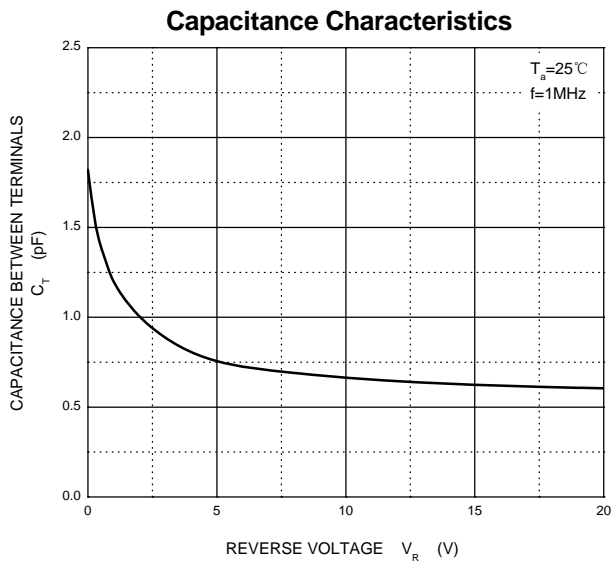
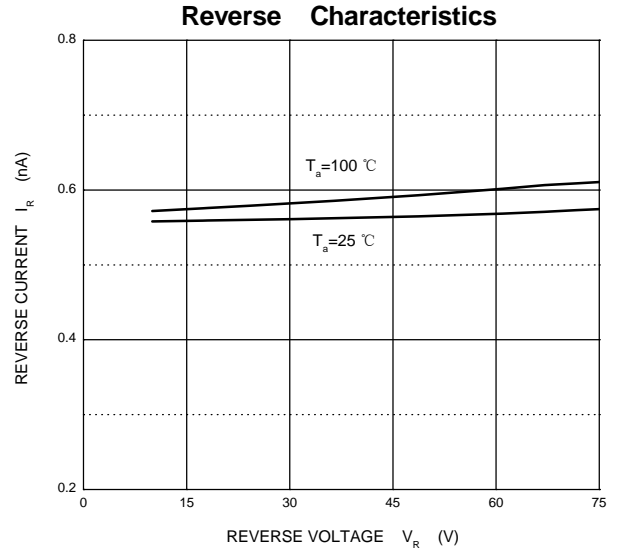
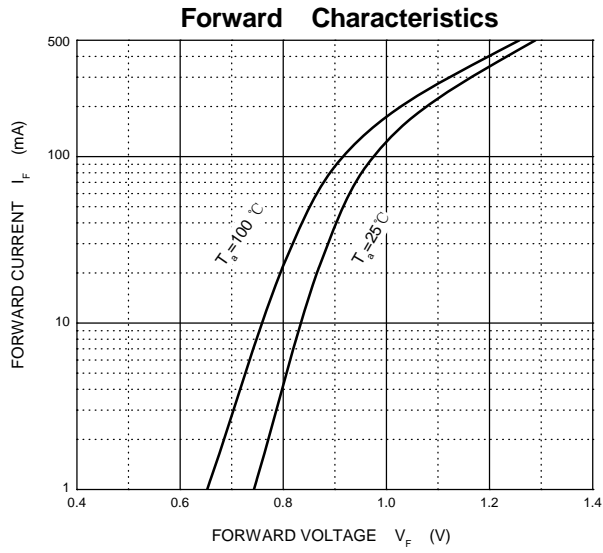
SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Typ | Max | Units |
|-------------|---|-----|-----|------------------------------|-------|
| $V_{(BR)R}$ | Reverse Breakdown Voltage ($I_R=100\mu A$) | 130 | --- | --- | V |
| V_F | Forward Voltage ($I_F=1mA$) ($I_F=10mA$) ($I_F=50mA$) ($I_F=150mA$) | --- | --- | 0.90 1.00 1.10 1.25 | V |
| I_R | Reverse Current ($V_R=75V$) | --- | --- | 5 | nA |
| C_d | Diode capacitance ($V_R=0, f=1.0MHz$) | --- | --- | 2.0 | pF |
| t_{rr} | Reverse Recovery Time ($I_F=10mA, I_R=10mA$) | --- | --- | 3 | us |

Typical Characteristics





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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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