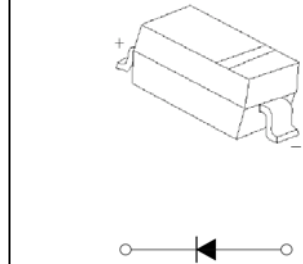




SOD-323 Plastic-Encapsulate Diodes

BAV19WS~BAV21WS SWITCHING DIODE

SOD-323



FEATURES

- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications

MARKING:

BAV19WS: A8

BAV20WS: T2

BAV21WS: T3

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

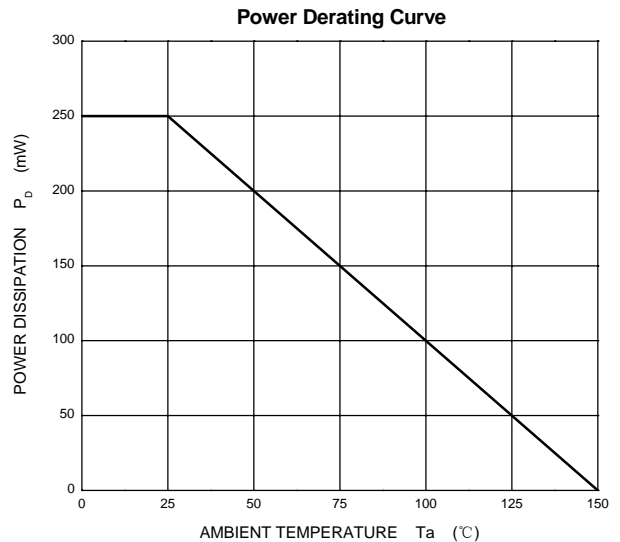
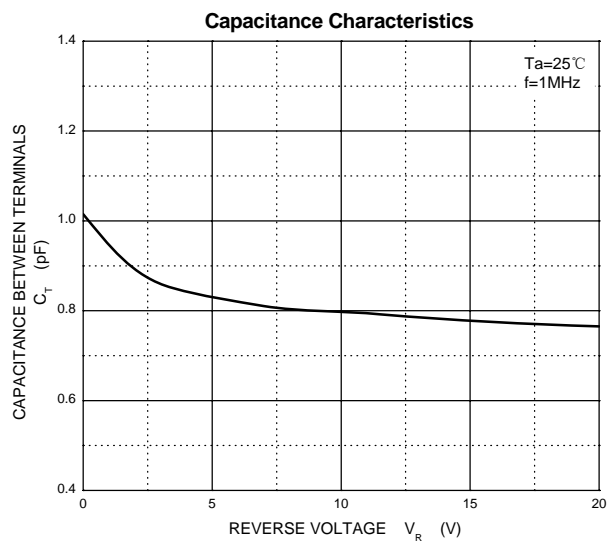
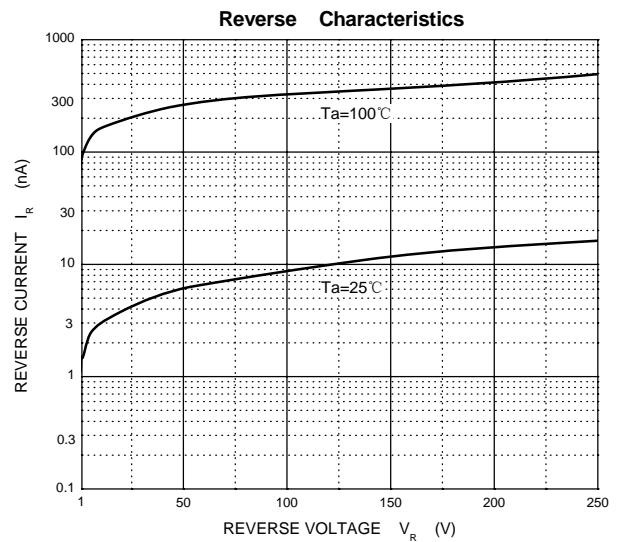
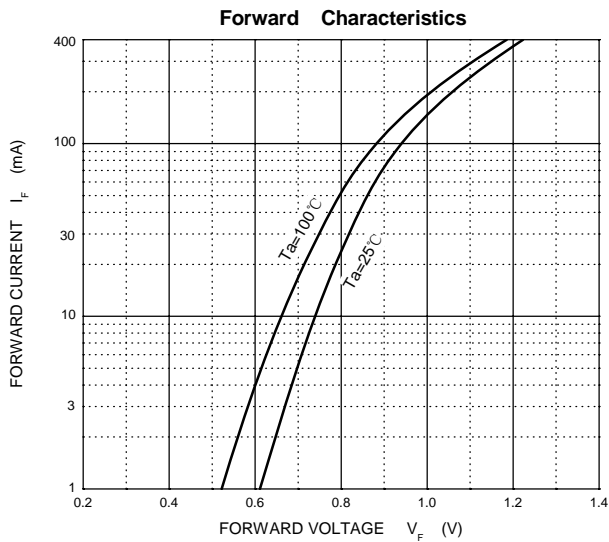
| Symbol | Parameter | Value | | | Unit |
|-----------------|--|----------|---------|---------|-----------------------------|
| | | BAV19WS | BAV20WS | BAV21WS | |
| V_{RM} | Non-Repetitive Peak Reverse Voltage | 120 | 200 | 250 | V |
| V_{RRM} | Peak Repetitive Reverse Voltage | 100 | 150 | 200 | V |
| V_{RWM} | Working Peak Reverse Voltage | | | | |
| $V_{R(RMS)}$ | RMS Reverse Voltage | 71 | 106 | 141 | V |
| I_o | Average Rectified Output Current | 200 | | | mA |
| I_{FSM} | Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$ | 1.7 | | | A |
| P_D | Power Dissipation | 250 | | | mW |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient | 500 | | | $^{\circ}\text{C}/\text{W}$ |
| T_j | Junction Temperature | 150 | | | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature | -55~+150 | | | $^{\circ}\text{C}$ |

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-----------------------|-----------|---------------------------------------|---------|-----|------|---------------|
| Reverse current | I_R | $V_R=100\text{V}$ | BAV19WS | | 0.1 | μA |
| | | $V_R=150\text{V}$ | BAV20WS | | 0.1 | |
| | | $V_R=200\text{V}$ | BAV21WS | | 0.1 | |
| Forward voltage | V_F | $I_F=100\text{mA}$ | | | 1 | V |
| | | $I_F=200\text{mA}$ | | | 1.25 | |
| Total capacitance | C_{tot} | $V_R=0\text{V}, f=1\text{MHz}$ | | | 5 | pF |
| Reverse recovery time | t_{rr} | $I_F=I_R=30\text{mA}, I_{rr}=0.1*I_R$ | | | 50 | ns |

Typical Characteristics

BAV21WS



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