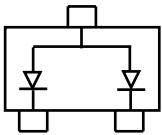
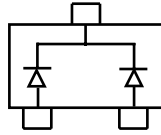


FEATURES

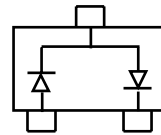
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



BAW56 Marking: A1



BAV70 Marking: A4



BAV99 Marking: A7

Maximum Ratings @ $T_A=25^{\circ}\text{C}$

| Parameter | Symbol | Limits | Unit |
|--|-----------------|---------|-----------------------------|
| Reverse voltage | V_R | 70 | V |
| Forward Current | I_F | 200 | mA |
| Peak Forward Surge Current | $I_{FM(surge)}$ | 500 | mA |
| Power Dissipation | P_D | 225 | mW |
| Thermal Resistance Junction to Ambient Air | $R_{\theta JA}$ | 556 | $^{\circ}\text{C}/\text{W}$ |
| Junction temperature | T_J | 150 | $^{\circ}\text{C}$ |
| Storage temperature range | T_{STG} | -55-150 | $^{\circ}\text{C}$ |

Electrical Characteristics @ $T_A=25^{\circ}\text{C}$

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|----------|------|------|-------|---------------|---|
| Reverse Breakdown Voltage | V_R | 70 | | | V | $I_R=100\mu\text{A}$ |
| Forward voltage | V_{F1} | | | 0.715 | V | $I_F=1\text{mA}$ |
| | V_{F2} | | | 0.855 | V | $I_F=10\text{mA}$ |
| | V_{F3} | | | 1 | V | $I_F=50\text{mA}$ |
| | V_{F4} | | | 1.25 | V | $I_F=150\text{mA}$ |
| Reverse current | I_R | | | 2.5 | μA | $V_R=70\text{V}$ |
| Capacitance between terminals | C_T | | | 1.5 | pF | $V_R=0, f=1\text{MHz}$ |
| Reverse recovery time | t_{rr} | | | 6 | ns | $I_F = I_R = 10\text{mA}$, $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$ |

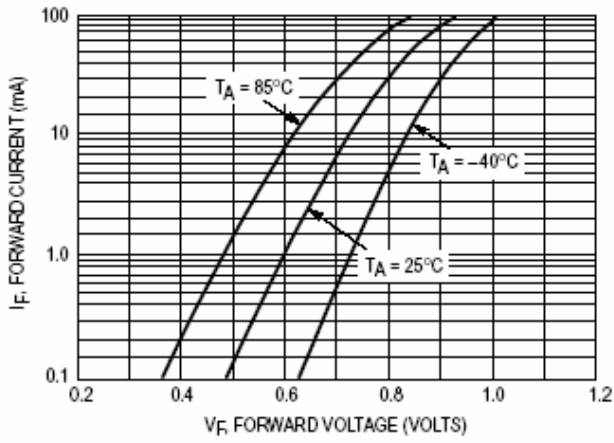


Figure 1. Forward Voltage

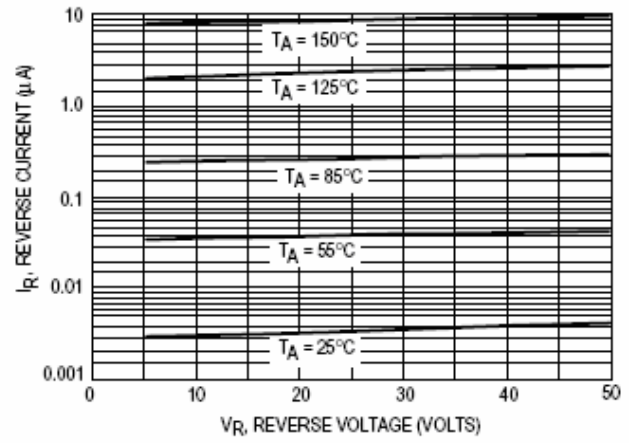


Figure 2 Leakage Current

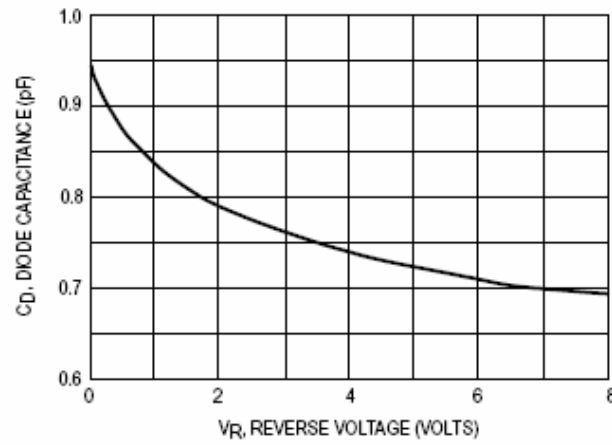


Figure 3 Capacitance