

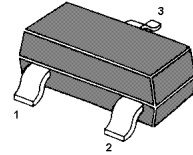
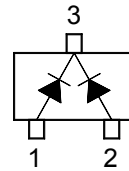
BAV70 Silicon Epitaxial Planar Switching Diode

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

Applications

- Ultra high speed switching application



Marking Code: **A4**
SOT-23 Plastic Package

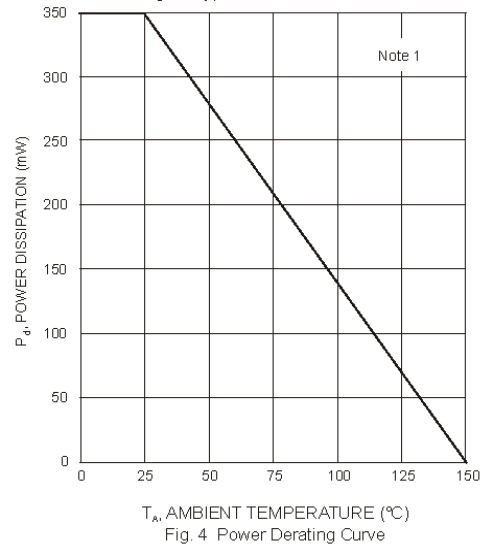
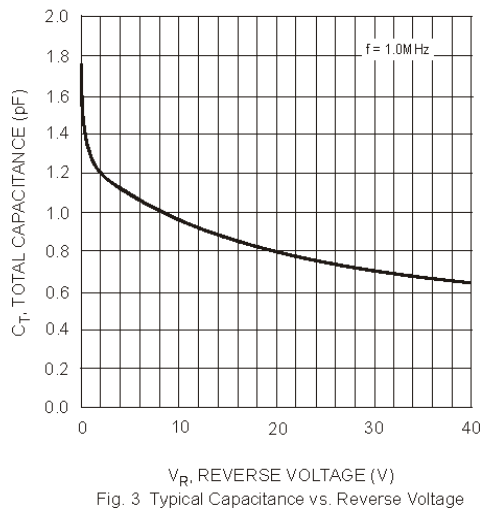
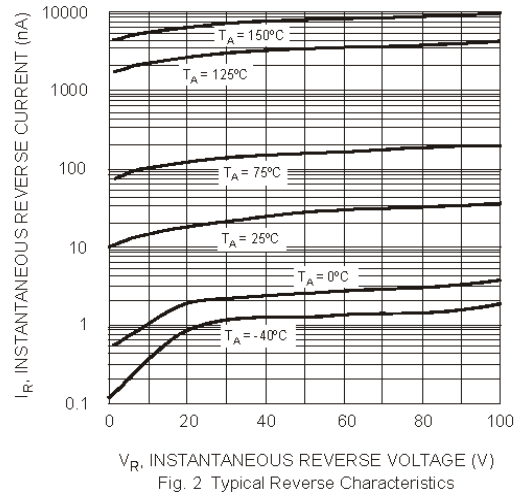
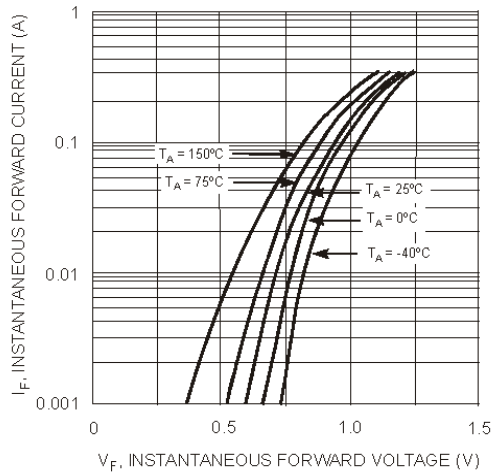
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---|-----------|--|------------------|
| Maximum Peak Reverse Voltage | V_{RM} | 100 | V |
| Reverse Voltage | V_R | 75 | V |
| Average Forward Current | I_O | 200 | mA |
| Maximum Peak Forward Current | I_{FM} | 300 | mA |
| Non-Repetitive Peak Forward Surge Current | I_{FSM} | 1 2 | A |
| | | at $t = 1\text{ s}$ at $t = 1\text{ }\mu\text{s}$ | |
| Power Dissipation | P_d | 350 | mW |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 55 to + 150 | $^\circ\text{C}$ |

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter | Symbol | Min. | Max. | Unit |
|---|-------------|------|------|---------------|
| Forward Voltage | V_F | - | 715 | mV |
| at $I_F = 1\text{ mA}$ | V_F | - | 855 | mV |
| at $I_F = 10\text{ mA}$ | V_F | - | 1 | V |
| at $I_F = 50\text{ mA}$ | V_F | - | 1.25 | V |
| Reverse Current | I_R | | 25 | nA |
| at $V_R = 20\text{ V}$ | I_R | - | 2.5 | μA |
| at $V_R = 75\text{ V}$ | I_R | - | 30 | μA |
| at $V_R = 25\text{ V}, T_J = 150\text{ }^\circ\text{C}$ | I_R | - | 50 | μA |
| at $V_R = 75\text{ V}, T_J = 150\text{ }^\circ\text{C}$ | I_R | - | | |
| Reverse Breakdown Voltage | $V_{(BR)R}$ | 75 | - | V |
| at $I_R = 100\text{ }\mu\text{A}$ | | | | |
| Total Capacitance | C_T | - | 2 | pF |
| at $V_R = 0, f = 1\text{ MHz}$ | | | | |
| Reverse Recovery Time | t_{rr} | - | 4 | ns |
| at $I_F = I_R = 10\text{ mA}$ to $I_{rr} = 1\text{ mA}, R_L = 50\text{ }\Omega$ | | | | |

BAV70



Note: Specification is subject to change without further notice. For more details and updates, please visit our website.