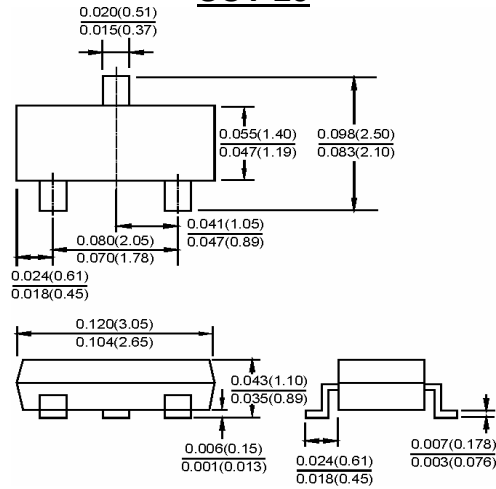




SOT-23



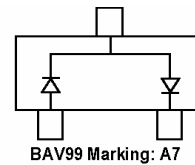
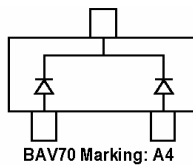
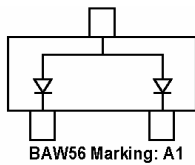
Dimensions in inches and (millimeters)

Features

- ✧ Fast switching speed
- ✧ Surface mount package ideally suited for automatic insertion
- ✧ For general purpose switching applications
- ✧ High conductance

Mechanical Data

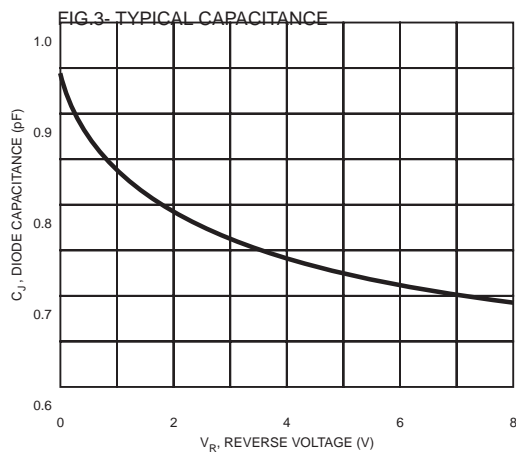
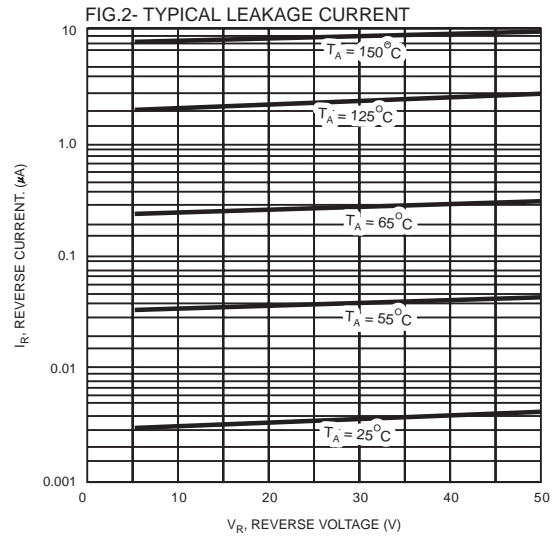
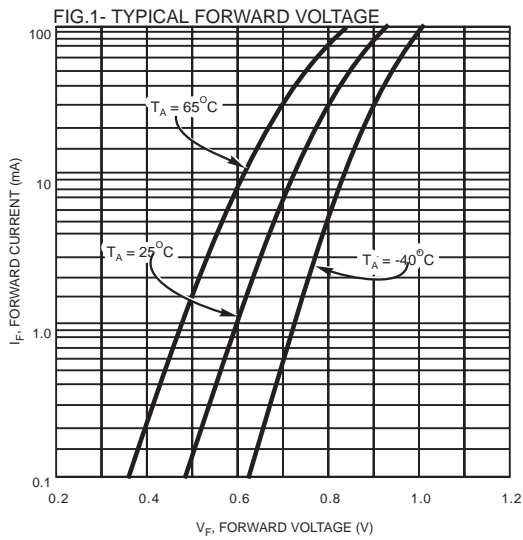
- ✧ Case: SOT-23, Molded plastic
- ✧ Marking: BAW56: A1, BAV70: A4, BAV99: A7
- ✧ Weight: 0.008 gram (approx.)



| Maximum Ratings $T_A=25^{\circ}\text{C}$ unless otherwise specified | | | | |
|---|-----------------|-------------------|-----------------------------|---------------|
| Type Number | Symbol | BAW56/BAV70/BAV99 | Units | |
| Reverse Voltage | V_R | 75 | 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 to 150 | $^{\circ}\text{C}$ | |
| Electrical Characteristics | | | | |
| Type Number | Symbol | Min | Max | Units |
| Reverse Breakdown Voltage | V_R | 75 | | V |
| Forward Voltage | V_F | | 0.715 | V |
| | | | 0.855 | |
| | | | 1.0 | |
| | | | 1.25 | |
| Reverse Current | I_R | | 30 | nA |
| | | | 2 | μA |
| Capacitance between terminals $V_R=0, f=1.0\text{MHz}$ | C_j | - | 1.5 | pF |
| Reverse Recovery Time (Note 1) | t_{rr} | - | 6.0 | nS |

Note 1: Reverse Recovery Test Conditions: $I_F=I_R=10\text{mA}$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$.

RATINGS AND CHARACTERISTIC CURVES (BAW56/BAV70/BAV99)



| PACKAGE | SPQ/PCS | CARTON SPQ/PCS | CARTON SIZE/CM | CARTON GW/KG | CARTON NW/KG |
|---------|-----------|-------------------|-------------------|-----------------|-----------------|
| SOT-23 | 3000/REEL | 90000 | 40X20X22 | 5.00 | 4.00 |

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[7-F](#) [BAW56M3T5G](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [JAN1N4454UR-1](#) [LL4151-GS18](#) [SMMSD4148T3G](#)
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