



Features

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

**RoHS
Compliant**

Mechanical Data

| | |
|-----------|--|
| Case | : SOT-23, moulded plastic |
| Terminals | : Solderable per MIL-STD-202, Method 208 |
| Polarity | : See diagram |
| Marking | : A7 |
| Weight | : 0.008 g (approximately) |

Maximum Ratings $T_A = 25^{\circ}\text{C}$ unless otherwise specified

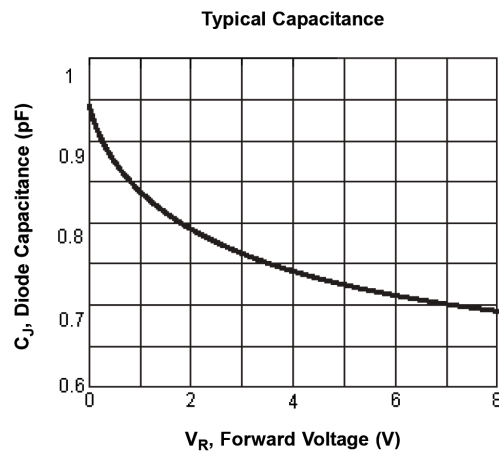
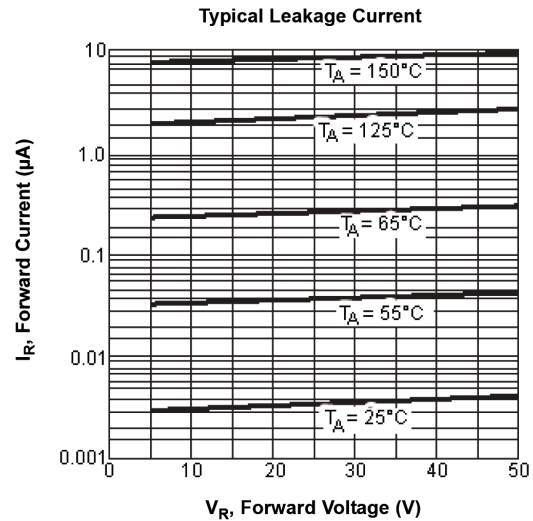
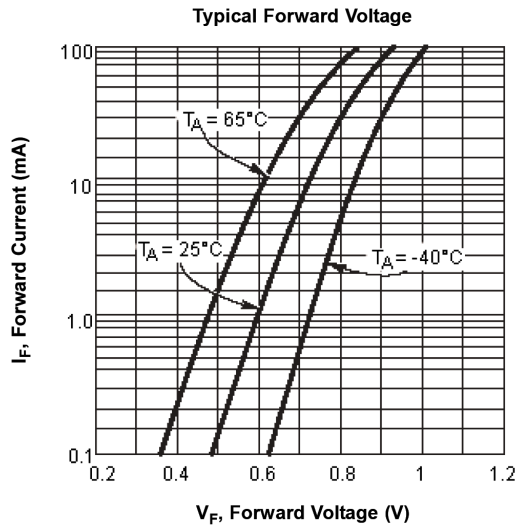
| Characteristic | Symbol | Values | Units |
|--|------------------|------------|-----------------------------|
| Reverse Voltage | V_R | 75 | V |
| Forward Current | I_F | 200 | mA |
| Peak Forward Surge Current | I_{FM} (surge) | 500 | |
| Power Dissipation | P_D | 225 | mW |
| Thermal Resistance Junction 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 | |

Electrical Characteristics

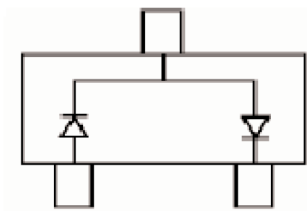
| Characteristic | Symbol | Minimum | Maximum | Units |
|--|----------|---------|---------|---------------|
| Reverse Breakdown Voltage $I_R = 100\mu\text{A}$ | V_R | 75 | - | V |
| Forward Voltage $I_F = 1.0\text{ mA}$ | V_F | - | 0.715 | |
| $I_F = 10\text{ mA}$ | | | 0.855 | |
| $I_F = 50\text{ mA}$ | | | 1 | |
| $I_F = 150\text{ mA}$ | | | 1.25 | |
| Reverse Current $V_R = 25\text{V}$ | I_R | - | 30 | nA |
| $V_R = 75\text{V}$ | | | 2 | μA |
| Capacitance between Terminals $V_R = 0, f = 1\text{MHz}$ | C_J | - | 1.5 | pF |
| Reverse Recovery Time (Note 1) | t_{rr} | - | 6 | 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

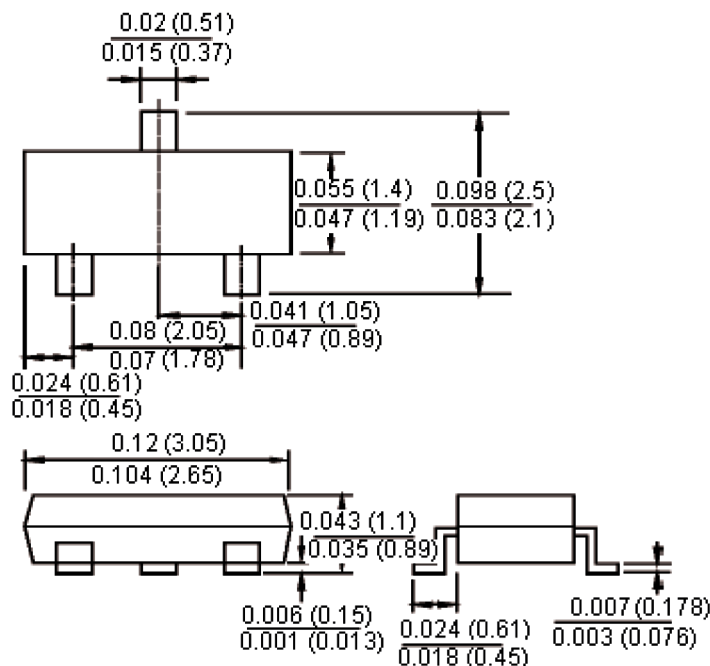


Connection Diagram



Diagram

SOT-23



Dimensions : Inches (Millimetres)

Part Number Table

| Description | Part Number |
|---------------------------------------|-------------|
| Diode, Dual, Small Signal, 75V, SOT23 | BAV99 |

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro