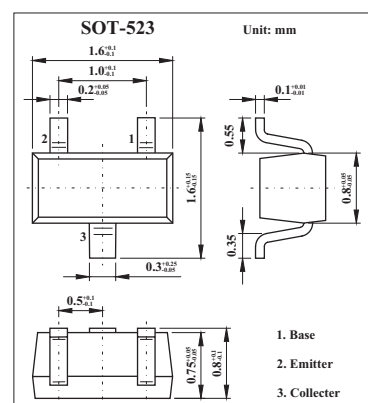


## Switching Diode

**BAS16T;BAW56T**  
**BAV70T;BAV99T**

## ■ Features

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

| Parameter  | Symbol                | Limits      | Unit             |
|--|-----------------------|-------------|------------------|
| Power dissipation ( $T_{a\text{ mb}}=25^\circ\text{C}$ ) | $P_D$                 | 150         | mW               |
| Forward Current  | $I_F$                 | 75          | mA               |
| Reverse Voltage  | $V_R$                 | 85          | V                |
| Operating and storage junction temperature range         | $T_J, T_{\text{stg}}$ | -55 to +150 | $^\circ\text{C}$ |

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

| Parameter                       | Symbol     | Conditions                       | Min | Max  | Unit          |
|---------------------------------|------------|----------------------------------|-----|------|---------------|
| Reverse breakdown voltage       | $V_{(BR)}$ | $I_R = 100\ \mu\text{A}$         | 85  |      | V             |
| Reverse voltage leakage current | $I_R$      | $V_R = 75\ \text{V}$             |     | 2    | $\mu\text{A}$ |
|                                 |            | $V_R = 25\ \text{V}$             |     | 0.03 |               |
| Forward voltage                 | $V_F$      | $I_F = 1\ \text{mA}$             |     | 715  | mV            |
|                                 |            | $I_F = 10\ \text{mA}$            |     | 855  |               |
|                                 |            | $I_F = 50\ \text{mA}$            |     | 1000 |               |
|                                 |            | $I_F = 150\ \text{mA}$           |     | 1250 |               |
| Diode capacitance               | $C_D$      | $V_R=0\ \text{V}, f=1\text{MHz}$ |     | 1.5  | pF            |
| Reverse recovery time           | $t_{rr}$   |                                  |     | 4    | ns            |

## ■ Marking

| Type    | BAS16T | BAW56T | BAV70T | BAV99T |
|---------|--------|--------|--------|--------|
| Marking | A2     | JD     | JJ     | JE     |