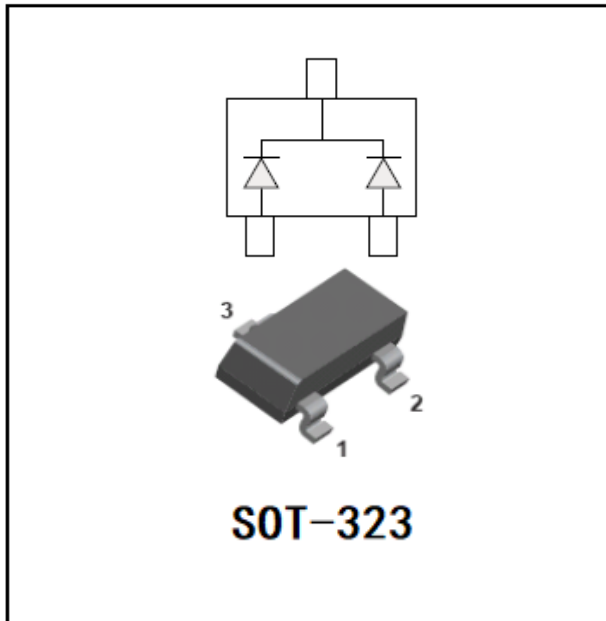


## Dual Switching Diode



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

### Mechanical Data

- **Package:** SOT-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** KJA

### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

| Item                                        | Symbol       | Unit | Value       |
|---------------------------------------------|--------------|------|-------------|
| Peak Reverse Voltage                        | $V_{RRM}$    | V    | 100         |
| Reverse Voltage                             | $V_R$        | V    | 75          |
| Peak Forward Current                        | $I_{FAV}$    | mA   | 150         |
| Thermal Resistance from Junction to Ambient | $R\theta JA$ | °C/W | 625         |
| Operation Junction Temperature              | $T_J$        | °C   | -55 to +150 |
| Storage Temperature                         | $T_{STG}$    | °C   | -55 to +150 |



## BAV70WT

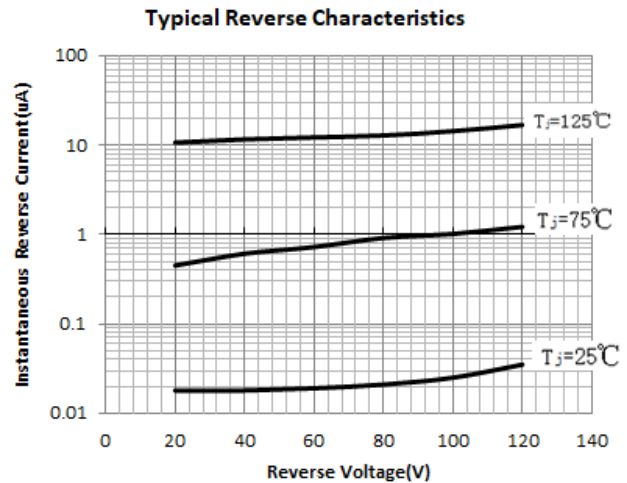
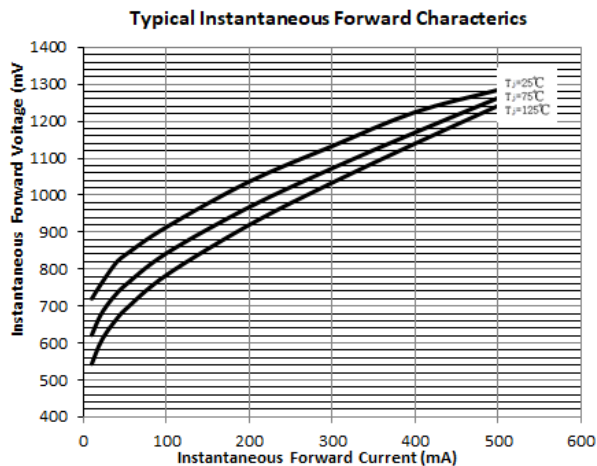
### ■ Electrical Characteristics (Ta=25°C unless otherwise specified)

| Item                                  | Symbol   | Unit    | Conditions                                              | Value |
|---------------------------------------|----------|---------|---------------------------------------------------------|-------|
| Reverse Voltage                       | $V_R$    | V       | $I_R=100\mu A$                                          | 75    |
| Maximum Instantaneous Forward Voltage | $V_F$    | V       | $I_F=1mA$                                               | 0.715 |
|                                       |          |         | $I_F=10mA$                                              | 0.855 |
|                                       |          |         | $I_F=50mA$                                              | 1.0   |
|                                       |          |         | $I_F=150mA$                                             | 1.25  |
| Maximum DC Reverse Current            | $I_R$    | $\mu A$ | $V_R=75V$                                               | 2.5   |
| Typical Junction Capacitance          | $C_J$    | pF      | $f=1.0MHz, V_R=0V$                                      | 2     |
| Reverse Recovery Time                 | $T_{rr}$ | ns      | $I_F=I_R=10mA$<br>$I_{rr}=0.1 \cdot I_R, R_L=100\Omega$ | 4     |

### ■ Ordering Information (Example)

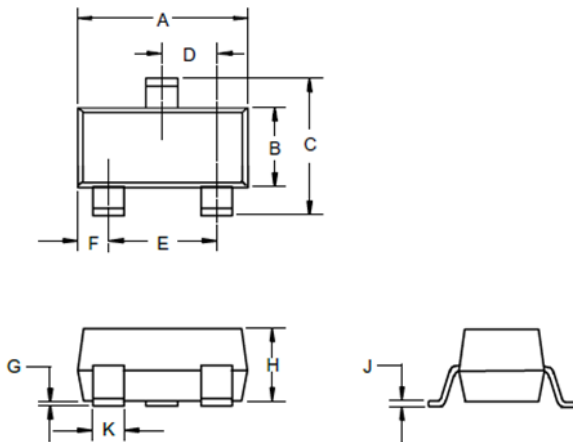
| Prefered P/N | Packing Code | Unit Weight(G)    | Minimum Package(Pcs) | Inner Box Quantity(Pcs) | Outer Carton Quantity(Pcs) | Delivery Mode |
|--------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| BAV70WT      | F2           | Approximate 0.008 | 3000                 | 30000                   | 120000                     | 7" reel       |

### ■ Characteristics (Typical)



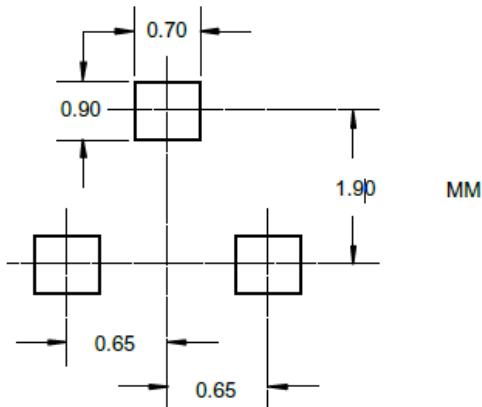


## ■ SOT-323 Package Outline Dimensions



| DIMENSIONS |              |      |             |      |      |
|------------|--------------|------|-------------|------|------|
| DIM        | INCHES       |      | MM          |      | NOTE |
|            | MIN          | MAX  | MIN         | MAX  |      |
| A          | .071         | .087 | 1.80        | 2.20 |      |
| B          | .045         | .053 | 1.15        | 1.35 |      |
| C          | .083         | .096 | 2.10        | 2.45 |      |
| D          | .026 Nominal |      | 0.65Nominal |      |      |
| E          | .047         | .055 | 1.20        | 1.40 |      |
| F          | .012         | .016 | .30         | .40  |      |
| G          | .000         | .004 | .000        | .100 |      |
| H          | .035         | .039 | .90         | 1.00 |      |
| J          | .004         | .010 | .100        | .250 |      |
| K          | .006         | .016 | .15         | .40  |      |

## ■ SOT-323 Suggested Pad Layout



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