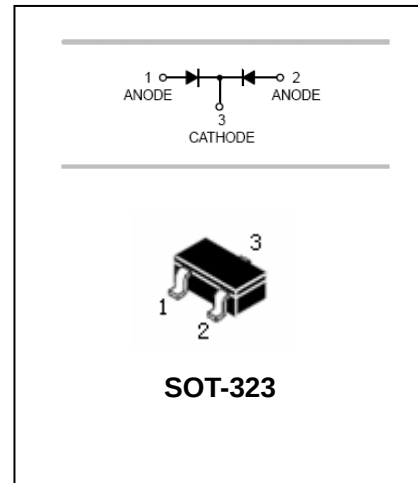


**Dual surface mount switching diode****BAV70W****FEATURES**

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



Lead-free

**SOT-323****APPLICATIONS**

- Small signal switching

**ORDERING INFORMATION**

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| BAV70W   | KJA     | SOT-323      |

**MAXIMUM RATING @ Ta=25°C unless otherwise specified**

| Parameter                           | Symbol    | Limits   | Unit |
|-------------------------------------|-----------|----------|------|
| Non-Repetitive Peak reverse voltage | $V_{RM}$  | 70       | V    |
| Diode reverse voltage               | $V_R$     | 70       | V    |
| Forward continuous Current          | $I_F$     | 200      | mA   |
| Forward Surge Current $t=1\mu S$    | $I_{FS}$  | 4.5      | A    |
| Power Dissipation                   | $P_d$     | 250      | mW   |
| Junction temperature                | $T_j$     | 150      | °C   |
| Storage temperature range           | $T_{stg}$ | -65-+150 | °C   |

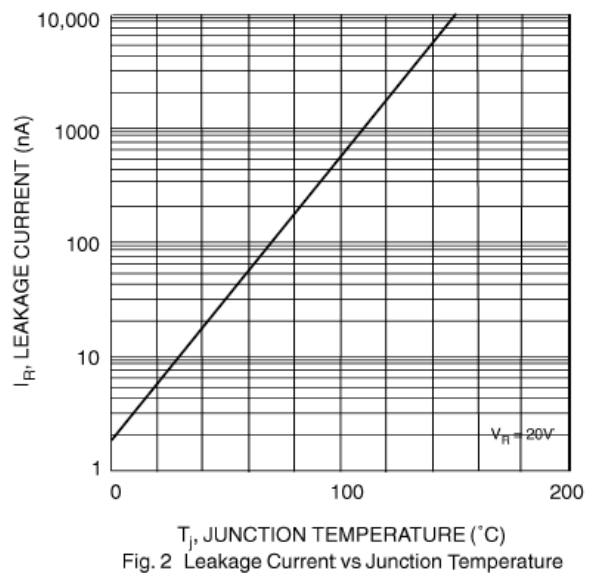
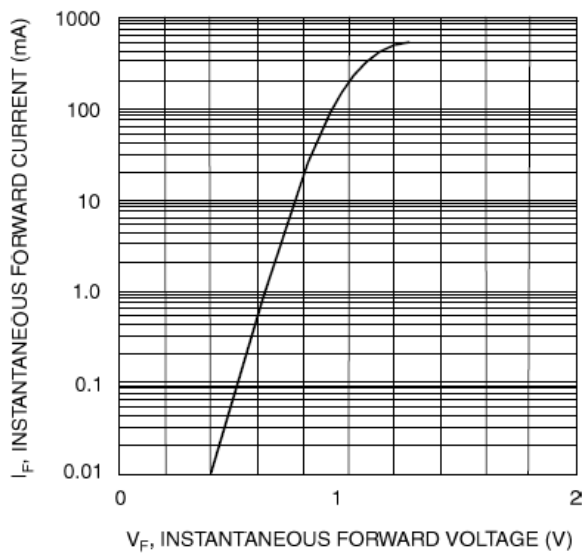
## Dual surface mount switching diode

## BAV70W

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Parameter                       | Symbol      | Test conditions                                              | MIN | MAX                        | UNIT    |
|---------------------------------|-------------|--------------------------------------------------------------|-----|----------------------------|---------|
| Reverse breakdown voltage       | $V_{(BR)R}$ | $I_R = 100\mu A$                                             | 70  |                            | V       |
| Reverse voltage leakage current | $I_R$       | $V_R = 70V$                                                  |     | 2.5                        | $\mu A$ |
| Forward voltage                 | $V_F$       | $I_F = 1mA$<br>$I_F = 10mA$<br>$I_F = 50mA$<br>$I_F = 150mA$ |     | 715<br>855<br>1000<br>1250 | mV      |
| Diode capacitance               | $C_D$       | $V_R = 0V$ $f = 1MHz$                                        |     | 1.5                        | pF      |
| Reverse recovery time           | $t_{rr}$    | $I_F = I_R = 10mA$<br>$I_R = 1mA$ $R_L = 100\Omega$          |     | 6                          | nS      |

### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



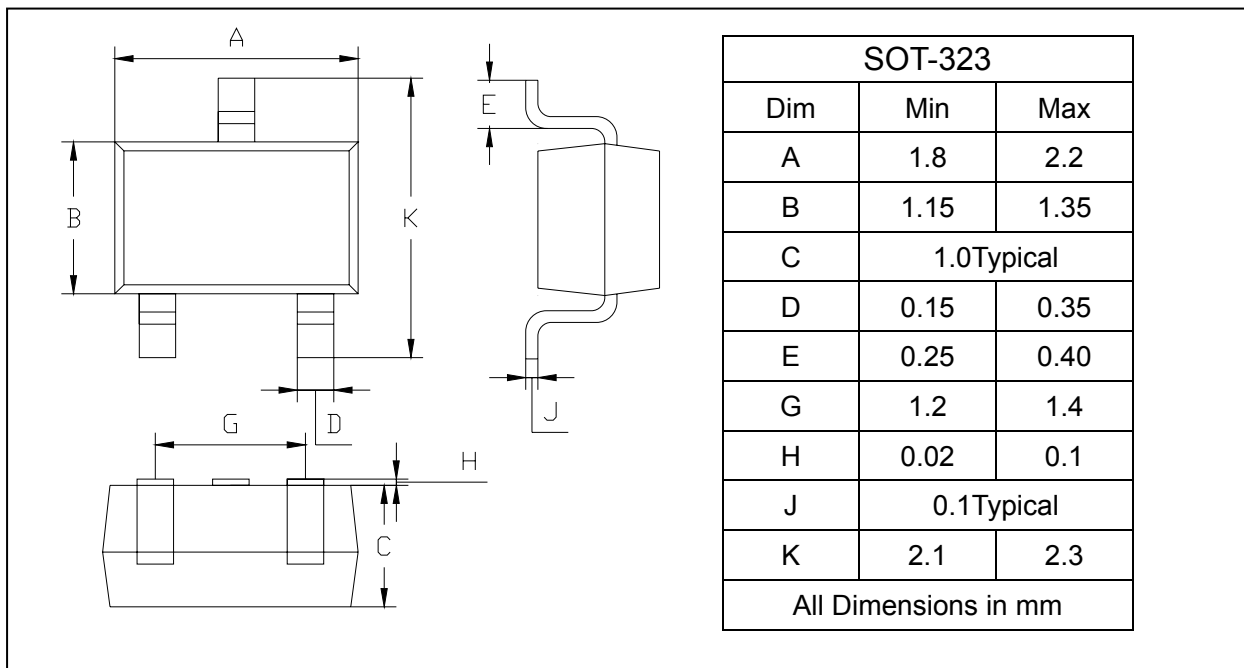
## Dual surface mount switching diode

**BAV70W**

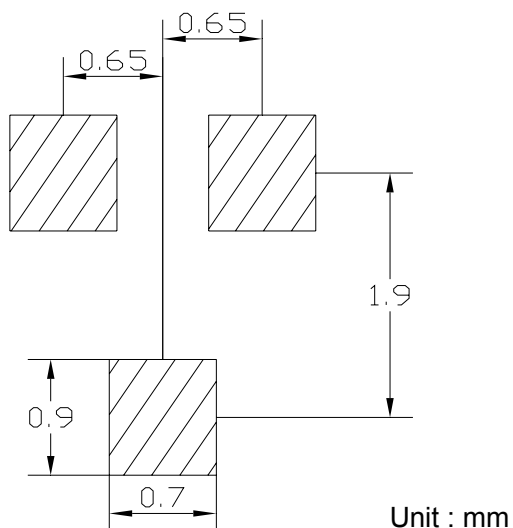
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

| Device | Package | Shipping       |
|--------|---------|----------------|
| BAV70W | SOT-323 | 3000/Tape&Reel |