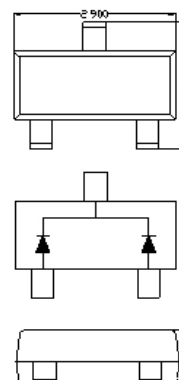


## BAV70

- ◇ Fast Switching Speed
- ◇ For General Purpose Switching Applications
- ◇ High Conductance
- ◇ Low Current Leakage
- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC

| Device Marking Code |           |
|---------------------|-----------|
| <b>BAV70</b>        | <b>A4</b> |

### SOT23



### MAXIMUM RATINGS (T<sub>a</sub> = 25 °C)

| Symbol           | Parameter                                            | Value      | Units |
|------------------|------------------------------------------------------|------------|-------|
| V <sub>R</sub>   | Reverse Voltage                                      | 75         | V     |
| I <sub>O</sub>   | Average Rectified Output Current                     | 150        | mA    |
| P <sub>tot</sub> | Power Dissipation                                    | 350        | mW    |
| I <sub>FSM</sub> | Peak Forward Surge Current @t=1.0S<br>Non-Repetitive | 1.0        | A     |
| T <sub>J</sub>   | Junction Temperature                                 | 150        | °C    |
| T <sub>stg</sub> | Storage Temperature                                  | -55 to 150 | °C    |
| R                | Thermal Resistance                                   | 357        | °C/W  |

### ELECTRICAL CHARACTERISTICS (T<sub>a</sub> = 25 °C)

| Symbol          | Parameter                       | Test Conditions                                                  | Min | Max       | Units    |
|-----------------|---------------------------------|------------------------------------------------------------------|-----|-----------|----------|
| V <sub>F</sub>  | Forward Voltage                 | I <sub>F</sub> =10mA                                             |     | 0.855     | V        |
| V <sub>R</sub>  | Reverse breakdown voltage       | I <sub>R</sub> =100uA                                            | 75  |           | V        |
| I <sub>R</sub>  | Reverse voltage leakage current | V <sub>R</sub> =75V<br>V <sub>R</sub> =75V T <sub>a</sub> =150°C |     | 2.5<br>50 | uA<br>uA |
| C <sub>J</sub>  | Typical Junction Capacitance    | V <sub>R</sub> =0V, f=1.0MHz                                     |     | 2         | pF       |
| T <sub>rr</sub> | Reverse recovery time           | I <sub>F</sub> =10mA, V <sub>R</sub> =0V, R <sub>L</sub> =100 Ω  |     | 4         | nS       |

**ORDERING INFORMATION**

| Device | Package | Shipping                        | Tape wide | Emboss pitch | Tape specification | Notes |
|--------|---------|---------------------------------|-----------|--------------|--------------------|-------|
| BAV70  | SOT23   | Tape & Reel<br>3000pcs /7" Reel | 8mm       | 4mm          | Conductive         |       |

**PACKAGE DIMENSIONS**
