

## BAS70/-04/-05/-06-G

Reverse Voltage: 70 Volts  
Forward Current: 70 mA  
RoHS Device

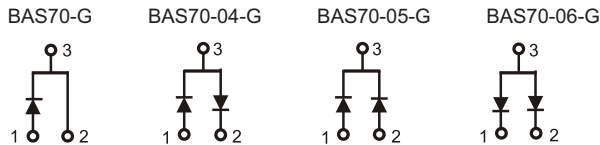
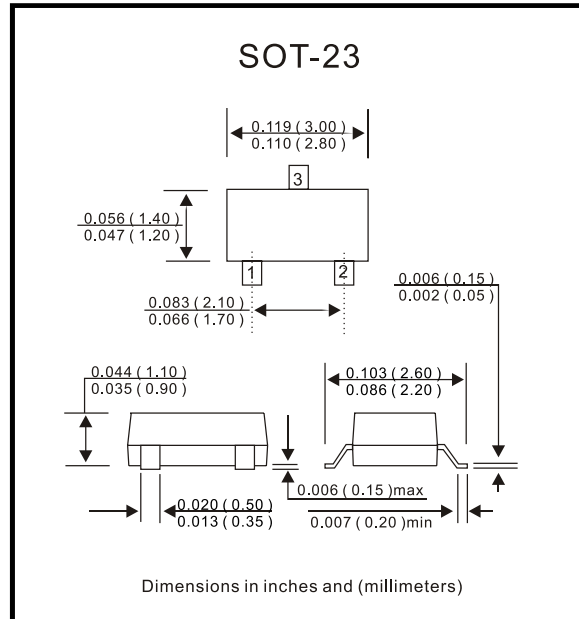


### Features

- Designed for mounting on small surface.
- High speed switching application, circuit protection.
- Low turn-on voltage

### Mechanical data

- Case: SOT-23, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, method 208.
- Approx. weight: 0.008 gram



### Maximum Ratings and Electrical Characteristics ( at Ta = 25°C unless otherwise noted )

| Parameter                       | Condition   | Symbol | Value       | Unit |
|---------------------------------|---|--------|-------------|------|
| Repetitive peak reverse voltage |   | VRRM   | 70          | V    |
| Reverse voltage                 |   | VR     | 70          | V    |
| Forward current                 |   | IF     | 70          | mA   |
| Surge peak forward current      | T < 1.0 sec   | IFSM   | 0.1         | A    |
| Power dissipation               |   | Pd     | 200         | mW   |
| Maximum forward voltage         | @ IF = 1.0 mA, tp < 300us<br>@ IF = 15 mA, tp < 300us | VF     | 0.41<br>1.0 | V    |
| Maximum reverse current         | @ VR = 50V  | IR     | 0.1         | uA   |
| Max reverse recovery time       | Note 1  | Trr    | 2           | nS   |
| Maximum diode capacitance       | VR=0V, f=1MHz   | CT     | 5           | pF   |
| Max. junction temperature       |   | Tj     | 125         | °C   |
| Storage temperature             |   | TSTG   | -65 to +150 | °C   |

Note1: IF=10mA through IR=10mA to IR=1.0mA, RL=100 ohms

## RATING AND CHARACTERISTIC CURVES ( BAS70/-04/-05/-06-G )

Fig. 1 - Forward characteristics

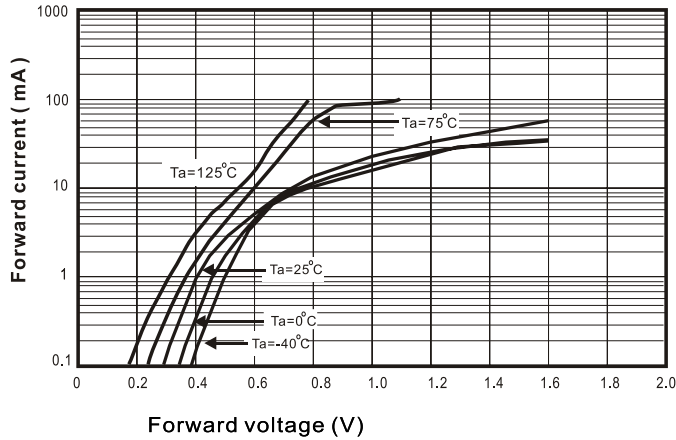


Fig. 2 - Reverse characteristics

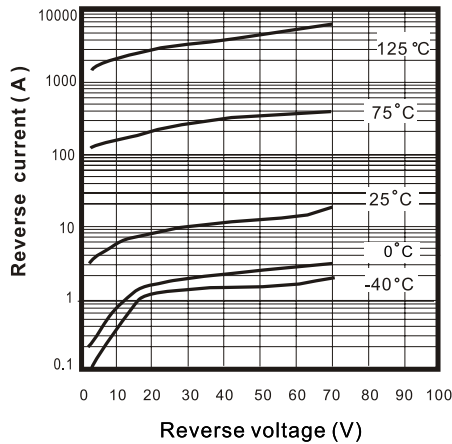


Fig. 3 - Capacitance between terminals characteristics

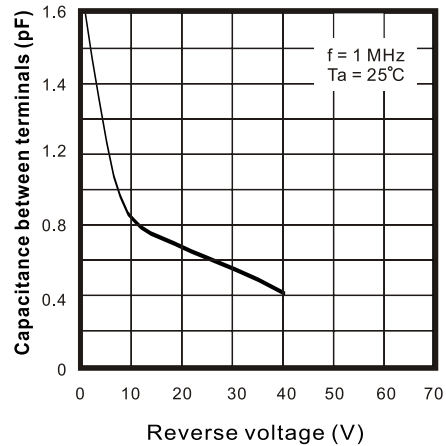


Fig. 4 - Power Derating Curve

