

# BAS21

## Switching Diode

### Features

- RoHS compliant package

### Mechanical Data

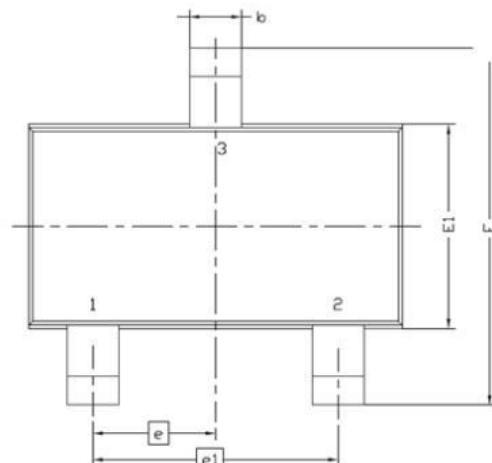
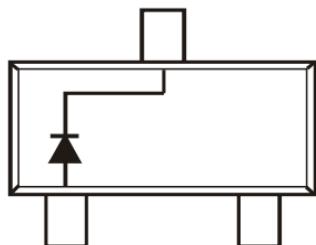
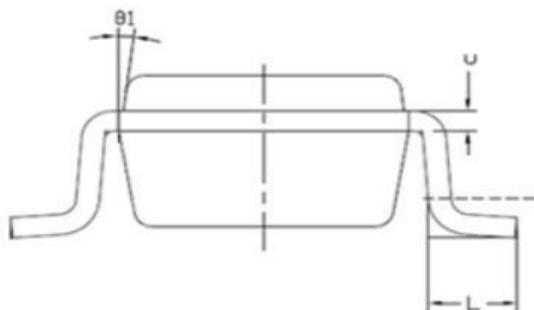
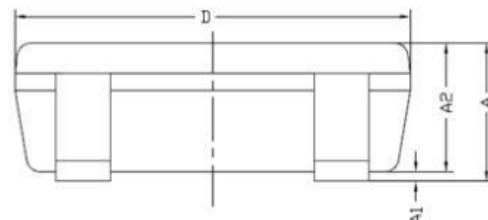
- Case: SOT-23 Molded plastic
- Epoxy: UL94V-O rate flame retardant

### Packing & Order Information

3,000/Reel



**RoHS**  
COMPLIANT



| Symbol | MILLIMETERS |     |
|--------|-------------|-----|
|        | MIN         | MAX |
| A      | 0.8         | 1.2 |
| A1     | 0           | 0.1 |
| A2     | 0.7         | 1.1 |
| b      | 0.3         | 0.5 |
| c      | 0.1         | 0.2 |
| D      | 2.7         | 3.1 |
| E      | 2.6         | 3   |
| E1     | 1.4         | 1.8 |
| e      | 0.95 BSC    |     |
| e1     | 1.9 BSC     |     |
| L      | 0.3         | 0.6 |
| θ1     | 7° NOM      |     |

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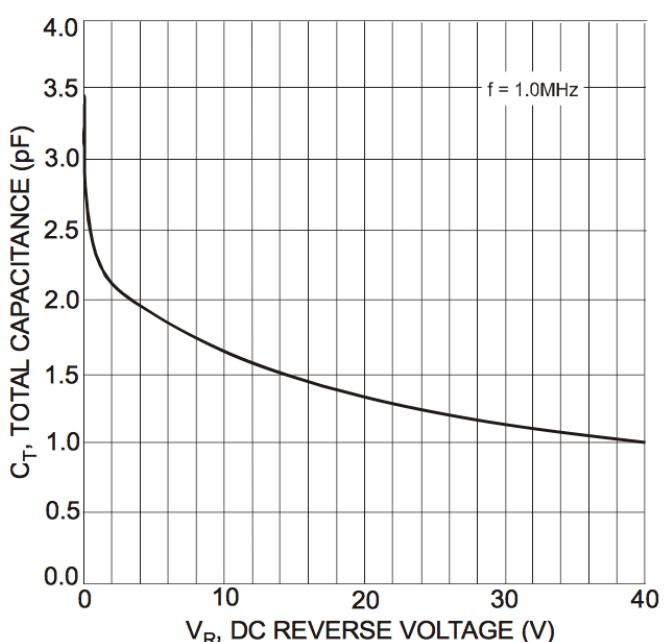
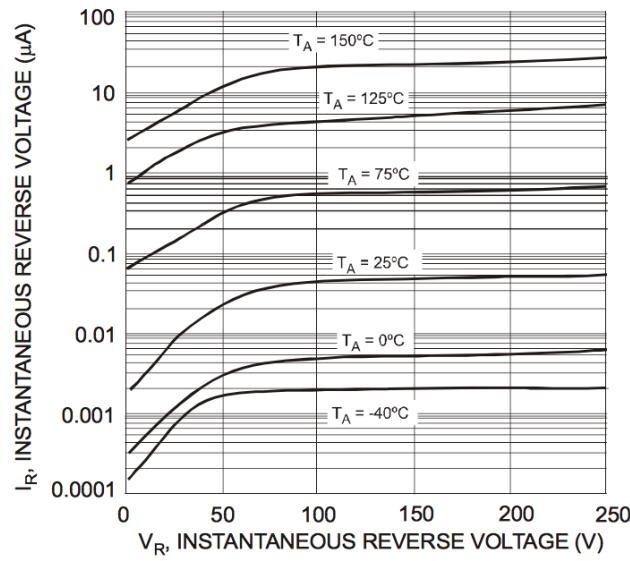
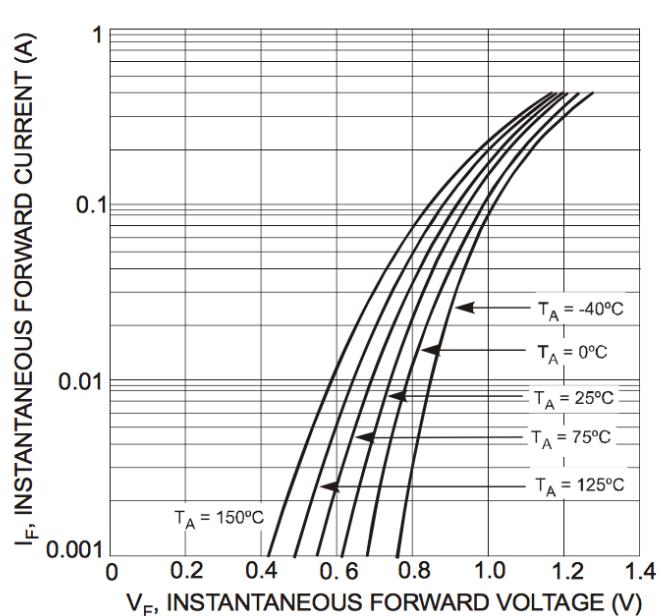
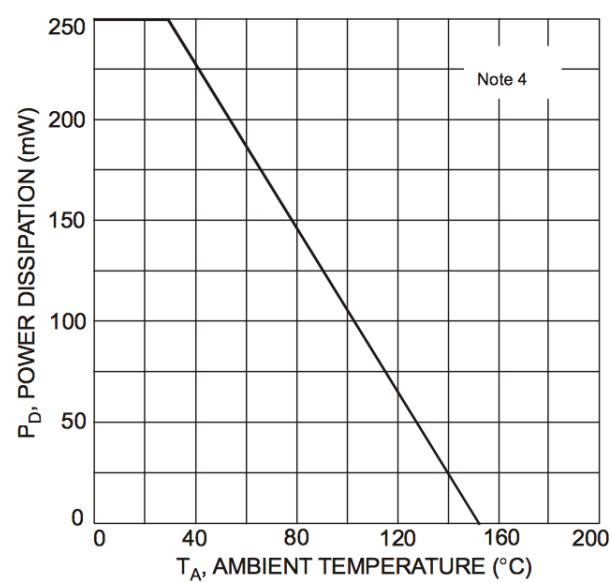
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| Maximum Ratings (T <sub>A</sub> =25°C unless otherwise specified) |                                     |     |             |      |
|---|-------------------------------------|-----|-------------|------|
| Symbol  | Parameter                           | MIN | MAX         | Unit |
| PD(T <sub>A</sub> =25°C)  | Power dissipation                   |     | 225         | mW   |
| IF  | Forward Current                     |     | 200         | ma   |
| VR  | Reverse Voltage VR                  |     | 250         | V    |
| T <sub>J</sub> /T <sub>STG</sub>                                  | Junction and Storage Temperature    |     | -55 to +150 | °C   |
| V(BR)   | Reverse Breakdown Voltage(IR=100uA) | 250 | --          | V    |
| IR  | Reverse Leakage Current(VR=200V)    |     | 1           | uA   |
| VF  | Forward Voltage(Test Condition)     |     |             |      |
|   | IF=100mA                            |     | 1.0         | V    |
|   | IF=200mA                            |     | 1.25        |      |
| CD  | Diode Capacitance (VR=0V, f=1MHz)   |     | 8           | pF   |
| Tr <sub>r</sub>   | Reverse Recovery Time               |     | 50          | nS   |

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### Characteristics Curve



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