**Panasonic** 

Revision. 1

Switching Diode

**BAS16** 

## **BAS16**

### Silicon epitaxial planar type

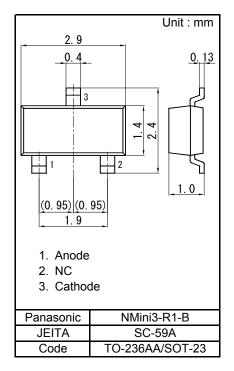
For high speed switching circuits Panasonic parts No. DA3Y101K

#### Features

- Small reverse current IR
- Short reverse recovery time trr
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: A6

#### ■ Packaging

Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)



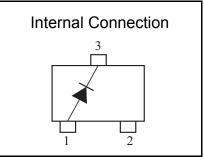
■ Absolute Maximum Ratings Ta = 25 °C

| Parameter                                    | Symbol | Rating      | Unit |
|--|--------|-------------|------|
| Reverse voltage                              | VR     | 80          | V    |
| Maximum peak reverse voltage                 | VRM    | 80          | V    |
| Forward current                              | IF     | 200         | mA   |
| Non-repetitive peak forward surge current *1 | IFSM   | 500         | mA   |
| Junction temperature                         | Tj     | 150         | °C   |
| Operating ambient temperature                | Topr   | -40 to +85  | °C   |
| Storage temperature                          | Tstg   | -55 to +150 | °C   |

Note) \*1 t = 1 s

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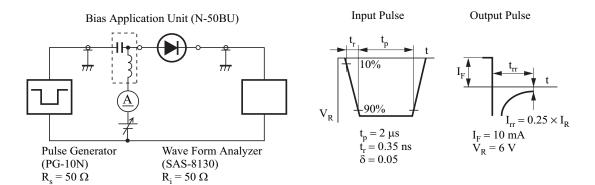
#### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

| Parameter                | Symbol | Conditions           | Min | Тур | Max  | Unit |
|--------------------------|--------|----------------------|-----|-----|------|------|
| Forward voltage          | VF     | IF = 150 mA          |     |     | 1.25 | V    |
| Reverse voltage          | VR     | IR = 100 μA          | 80  |     |      | V    |
| Reverse current          | IR     | VR = 80 V            |     |     | 100  | nA   |
| Terminal capacitance     | Ct     | VR = 0 V , f = 1 MHz |     |     | 1.2  | pF   |
| Reverse recovery time *1 | trr    | IF = 10 mA, VR = 6 V |     |     | 3    | ns   |
|                          |        | Irr = 0.25 × IR      |     |     |      |      |

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.
  - 2. Absolute frequency of input and output is 100 MHz.
    - 3. \*1 trr test circuit

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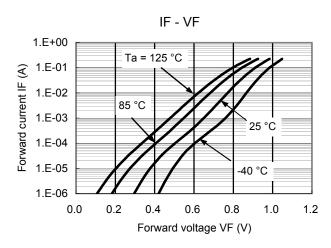


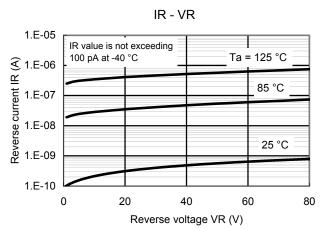
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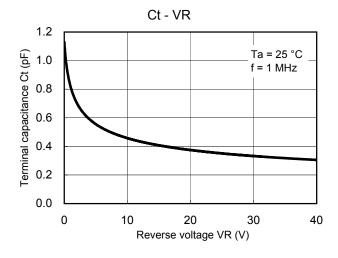
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### Technical Data (reference)







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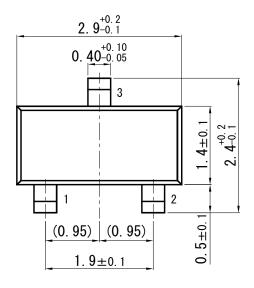
Switching Diode

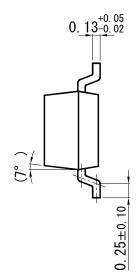
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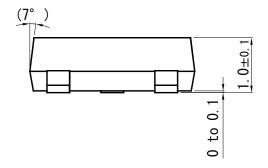
### NMini3-R1-B

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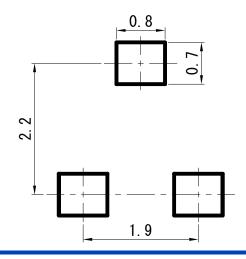
Unit: mm







#### ■ Land Pattern (Reference) (Unit: mm)



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