## **Panasonic**

### BAV99

Silicon epitaxial planar type

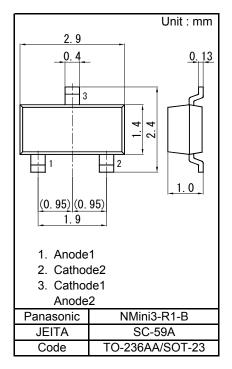
For high speed switching circuits Panasonic parts No. DA3Y101F

#### ■ 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: A7
- Basic Part Number : Dual DA2J101 (Series)

#### ■ Packaging

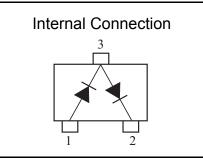
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)



| ■ Absolute Maximum Ratings Ta = 25 °C |
|---------------------------------------|
|---------------------------------------|

| Parameter                     |        | Symbol  | Rating      | Unit |  |
|-------------------------------|--------|---------|-------------|------|--|
| Reverse voltage               |        | VR      | 80          | V    |  |
| Maximum peak reverse voltage  |        | VRM     | 80          | V    |  |
| Forward current               | Single | IF      | 200         | mA   |  |
|                               | Series | 11      | 100         | mA   |  |
| Non-repetitive peak           | Single | IFSM    | 500         | mA   |  |
| forward surge current *1      | Series | II SIVI | 325         | 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



Page 1 of 4

Established : 2013-07-16 Revised : ###-##-##

Switching Diode

BAV99

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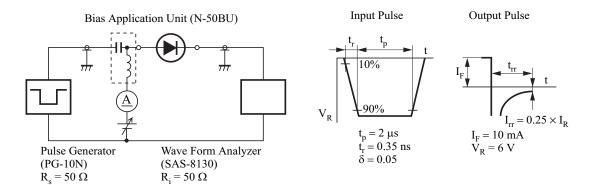
### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

| 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 |     |     | Q    | ns   |
|                          |        | Irr = 0.25 × IR      |     |     | 3    |      |

- 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

Established: 2013-07-16

Revised

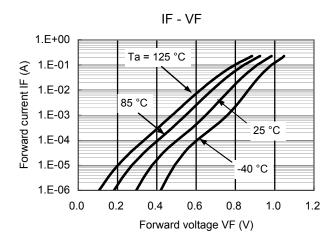


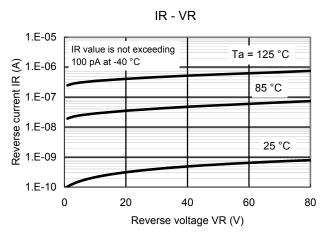
Switching Diode

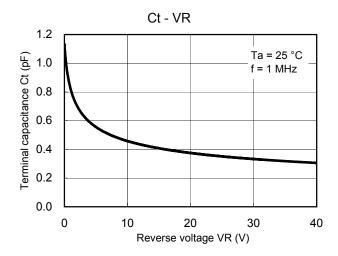
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# **Panasonic**

## Technical Data (reference)







Established : 2013-07-16 Revised : ###-##-##

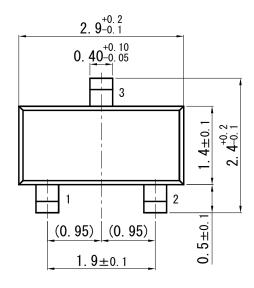
Switching Diode

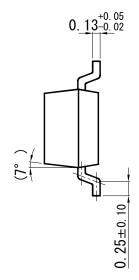
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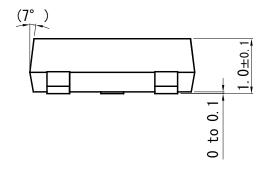
# NMini3-R1-B

**Panasonic** 

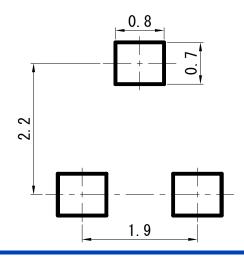
Unit: mm







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



Page 4 of 4

Established : 2013-07-16 Revised : ###-##-##

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