

Switching Diode DA3X107K0L

DA3X107K0L Silicon epitaxial planar type

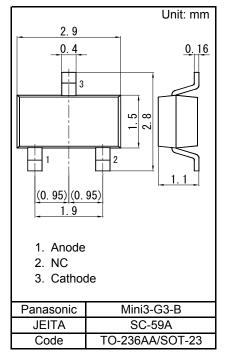
For high speed switching circuits DA3J107K in Mini3 type package

Features

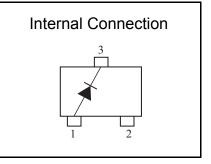
- Small reverse current IR
- High reverse voltage VR
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 25

Packaging

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



| Absolute Maximum Ratings Ta = 25 °C | | | | | | |
|--|--------|-------------|------|--|--|--|
| Parameter | Symbol | Rating | Unit | | | |
| Reverse voltage | VR | 300 | V | | | |
| Repetitive peak reverse voltage | VRRM | 300 | V | | | |
| Forward current (Average) | IF(AV) | 100 | mA | | | |
| Repetitive peak forwand current | IFRM | 225 | 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 | | | | | | |



Established : 2010-06-02 Revised : 2013-06-12

Panasonic

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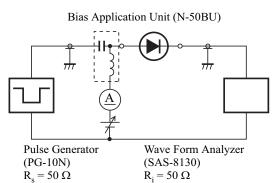
■ Electrical Characteristics Ta = 25 °C ± 3 °C

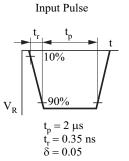
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|-------------------------------------|--------|---|-----|-----|-----|------|
| Forward voltage | VF | IF = 100 mA | | | 1.2 | V |
| Reverse current | IR | VR = 300 V | | | 1.0 | μA |
| Terminal capacitance | Ct | VR = 6 V, f = 1 MHz | | | 3.0 | pF |
| Reverse recovery time ^{*1} | trr | IF = 10 mA, VR = 6 V Irr = 0.25 x IR | | | 60 | ns |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

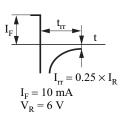
2. Absolute frequency of input and output is 20 MHz.

3. *1: trr test circuit





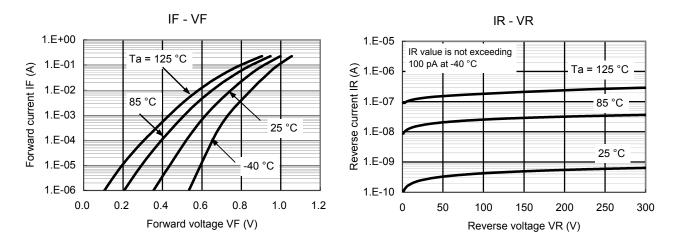


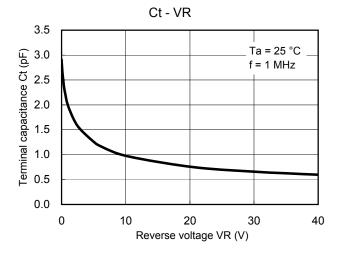




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Technical Data (reference)





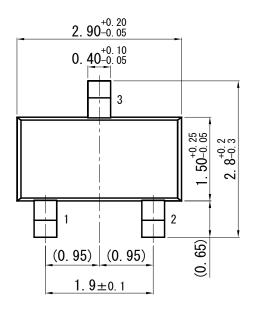
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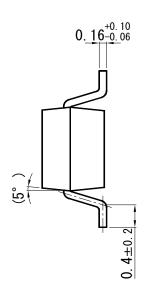


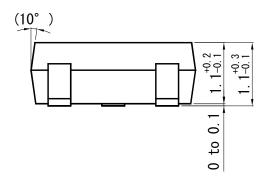
Mini3-G3-B

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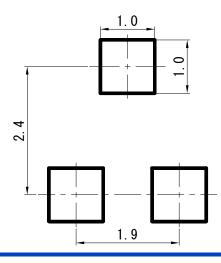
Unit: mm







Land Pattern (Reference) (Unit: mm)



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