



DB3Y313KEL

Silicon epitaxial planar type

For small current rectification
DB3X313K in NMini3 type package

■ Features

- Low forward voltage and small reverse leakage current
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol : 4J

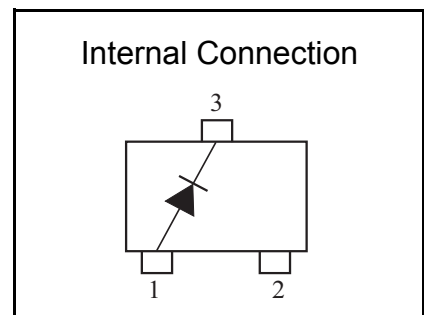
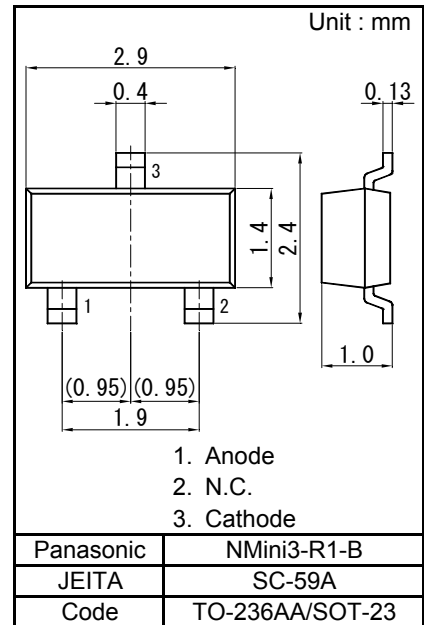
■ Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

| Parameter | Symbol | Rating | Unit |
|--|---------|-------------|------|
| Reverse voltage | VR | 30 | V |
| Repetitive peak reverse voltage | VRRM | 30 | V |
| Forward current (Average) | IF (AV) | 200 | mA |
| Peak forward current | IFM | 300 | mA |
| Non-repetitive peak forward surge current *1 | IFSM | 1 | A |
| Junction temperature | Tj | 125 | °C |
| Operating ambient temperature | Topr | -40 to +85 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

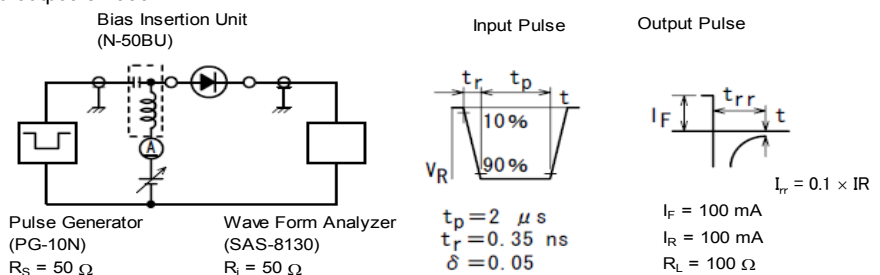
Note) *1 The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)



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

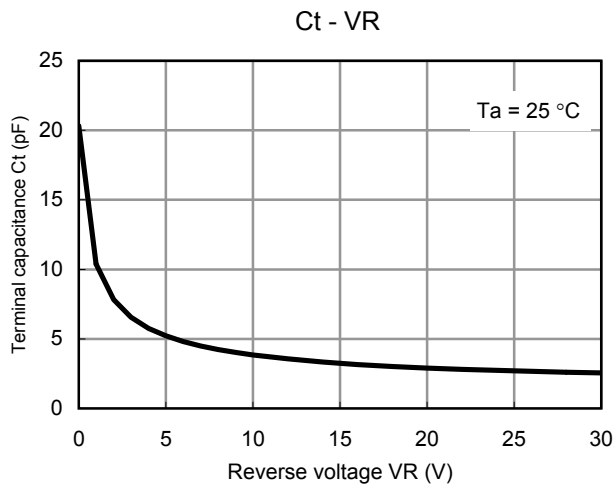
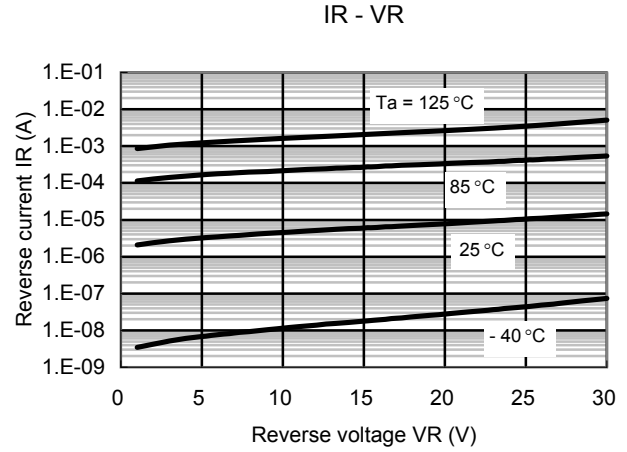
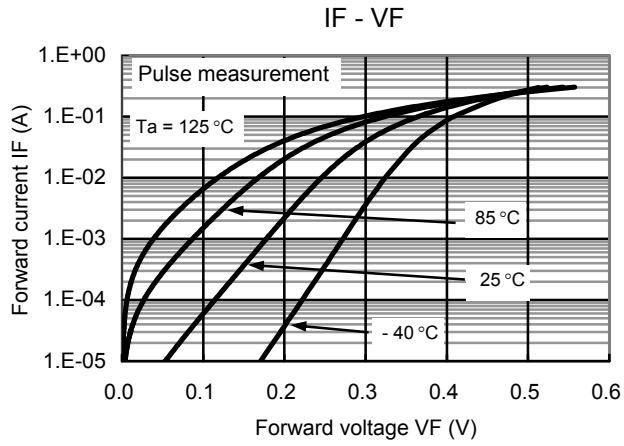
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|--------------------------|--------|--|-----|-----|------|------|
| Forward voltage | VF | IF = 200 mA | | | 0.55 | V |
| Reverse current | IR | VR = 30 V | | | 50 | μA |
| Terminal capacitance | Ct | VR = 10 V, f = 1 MHz | | 3.8 | | pF |
| Reverse recovery time *1 | trr | IF = IR = 100 mA, I _{rr} = 0.1 × IR RL = 100 Ω | | 1.5 | | ns |

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. Absolute frequency of input and output is 1000 MHz.
4. *1 trr measurement circuit





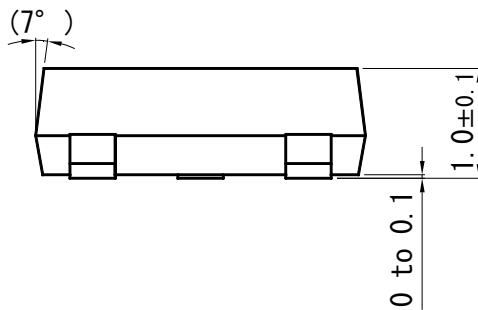
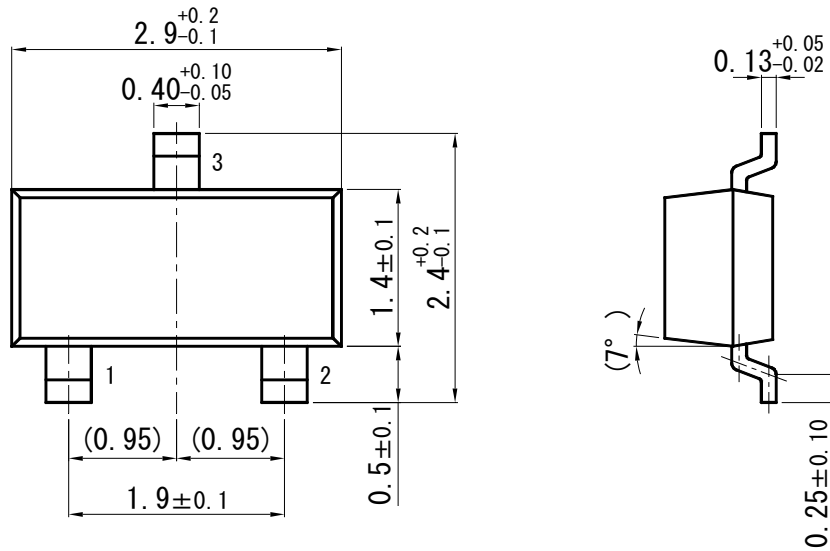
Technical Data (reference)



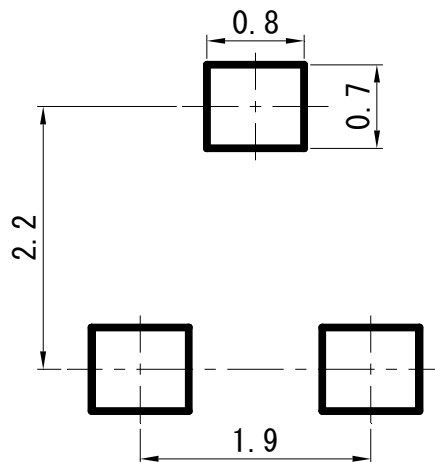


NMini3-R1-B

Unit : mm



■ Land Pattern (Reference) (Unit : mm)



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