Schottky Barrier Diode

## DB3X207K0L

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**Panasonic** 

## Silicon epitaxial planar type

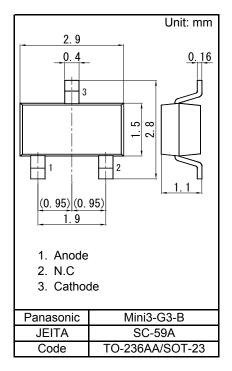
### For high frequency rectification

#### ■ Features

- · Low forward voltage VF
- Forward current (Average) IF(AV) = 1 A rectification is possible
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 3F

#### ■ Packaging

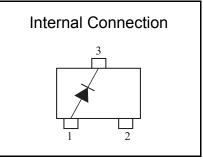
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)



■ Absolute Maximum Ratings Ta = 25 °C

| Parameter                                    | Symbol | Rating      | Unit |
|--|--------|-------------|------|
| Reverse voltage                              | VR     | 20          | V    |
| Repetitive peak reverse voltage              | VRRM   | 20          | V    |
| Forward current (Average) *1                 | IF(AV) | 1           | Α    |
| Non-repetitive peak forward surge current *2 | IFSM   | 3           | Α    |
| Junction temperature                         | Tj     | 125         | °C   |
| Operating ambient temperature                | Topr   | -40 to +85  | °C   |
| Storage temperature                          | Tstg   | -55 to +125 | °C   |

Note: \*1 Mounted on an alumina PC board



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<sup>\*2 50</sup> Hz sine wave 1 cycle (Non-repetitive peak current)

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

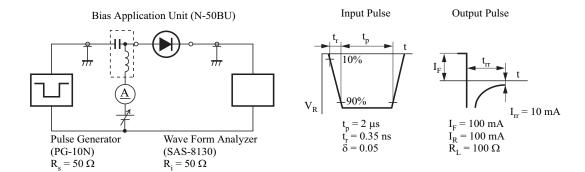
| Parameter                | Symbol | Conditions  | Min | Тур | Max | Unit |
|--------------------------|--------|---|-----|-----|-----|------|
| Forward voltage          | VF     | IF = 1.0 A  |     |     | 0.4 | V    |
| Reverse current          | IR     | VR = 6 V  |     |     | 1.5 | mA   |
| Terminal capacitance     | Ct     | VR = 10 V, f = 1 MHz                                |     | 43  |     | pF   |
| Reverse recovery time *1 | trr    | IF = IR = 100 mA,<br>Irr = 10 mA, RL = 100 $\Omega$ |     | 12  |     | 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. \*1 trr test circuit

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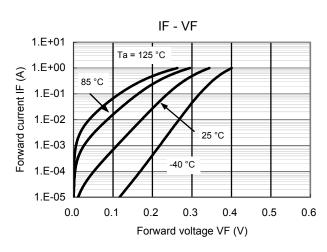
Revised

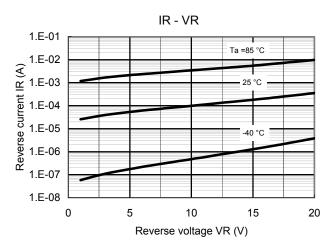


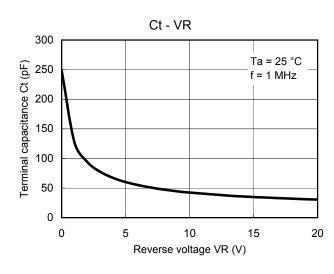
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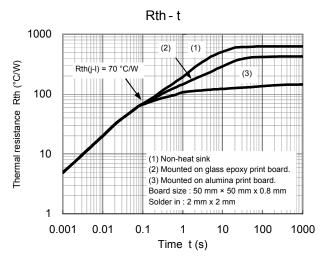
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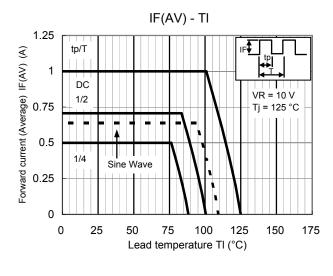
## Technical Data (reference)

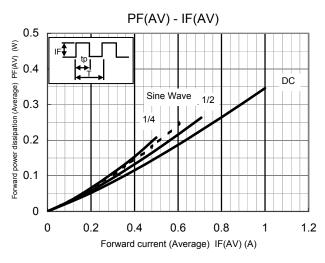












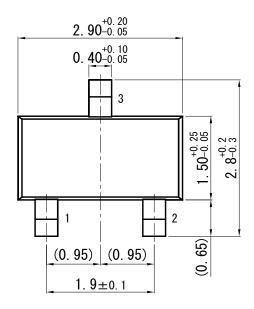
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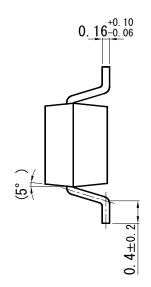
## Schottky Barrier Diode

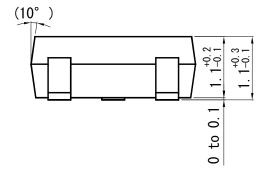
## DB3X207K0L

Mini3-G3-B

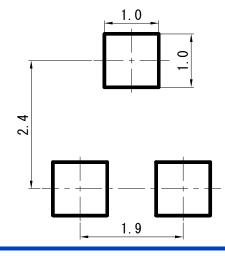
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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