



DB2W31800L

Silicon epitaxial planar type

For rectification

■ Features

- Low forward voltage VF
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 3V

■ Packaging

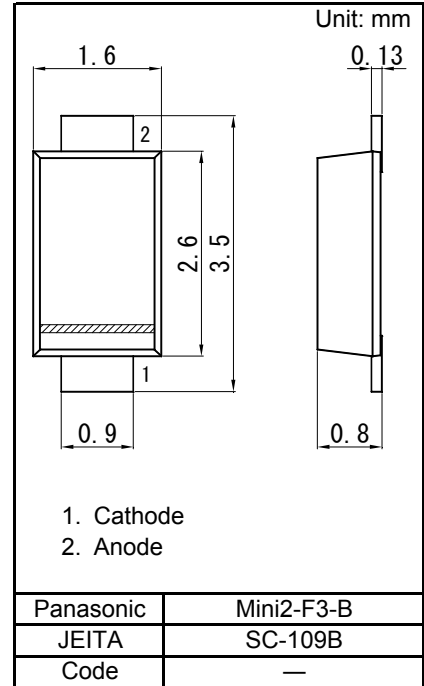
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

| Parameter | Symbol | Rating | Unit |
|---------------------------------------------------------|--------|-------------|------|
| Reverse voltage (direct current) | VR | 30 | V |
| Forward current (average) ^{*1} | IF(AV) | 2 | A |
| Non-repetitive peak forward surge current ^{*2} | IFSM | 30 | A |
| Junction temperature | Tj | 125 | °C |
| Operating ambient temperature | Topr | -40 to +85 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

Note) *1 For embedded alumina substrate (substrate size: 5 cm×5 cm)

*2 50 Hz sine wave 1 cycle (Non-repetitive peak current)

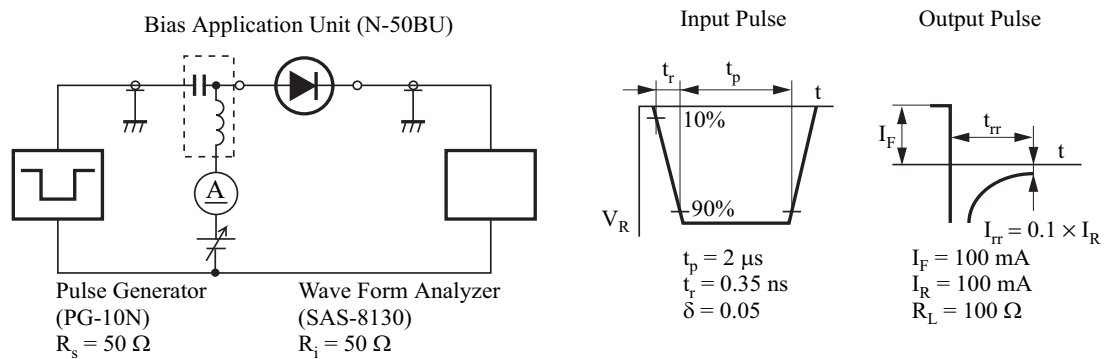




■ Electrical Characteristics $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

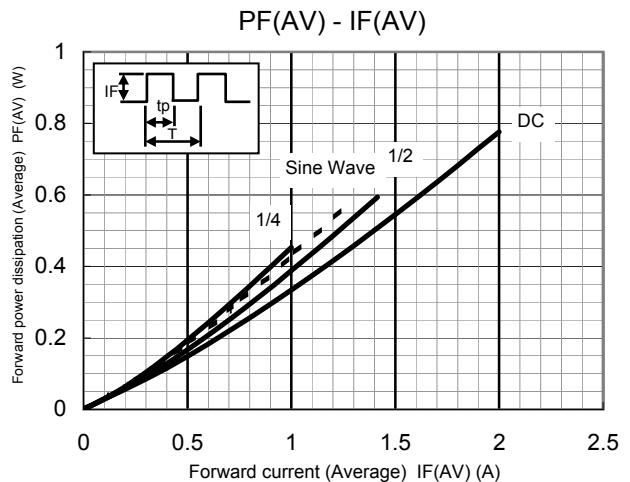
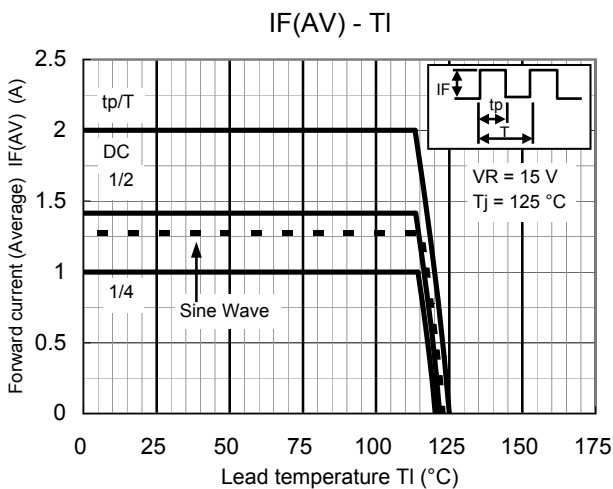
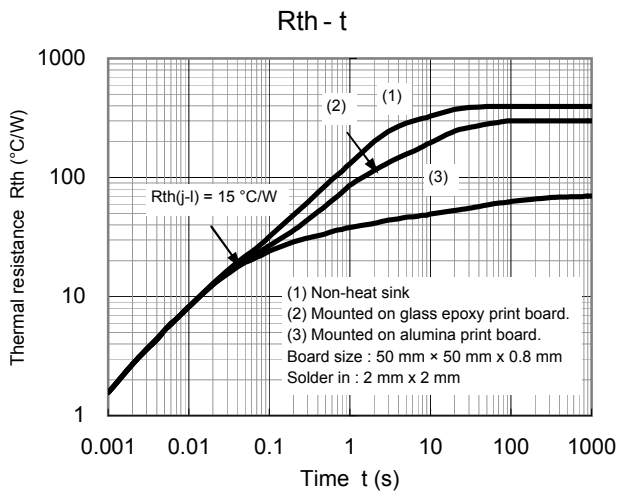
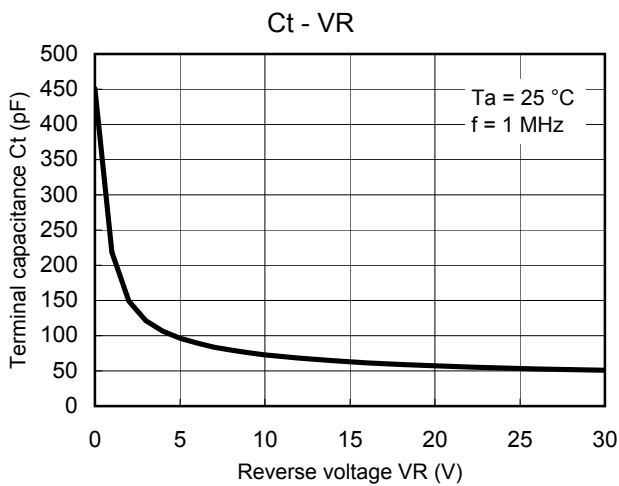
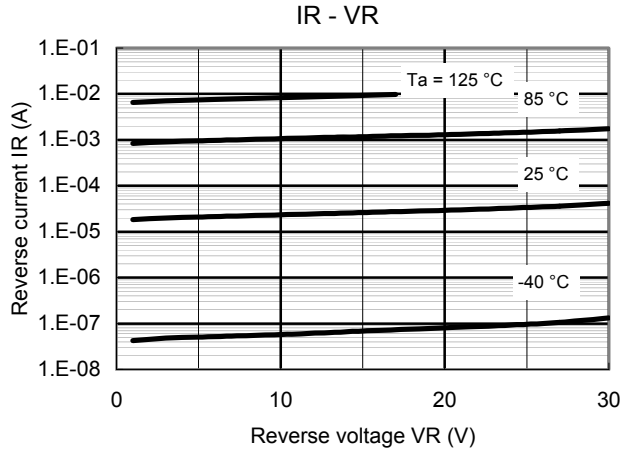
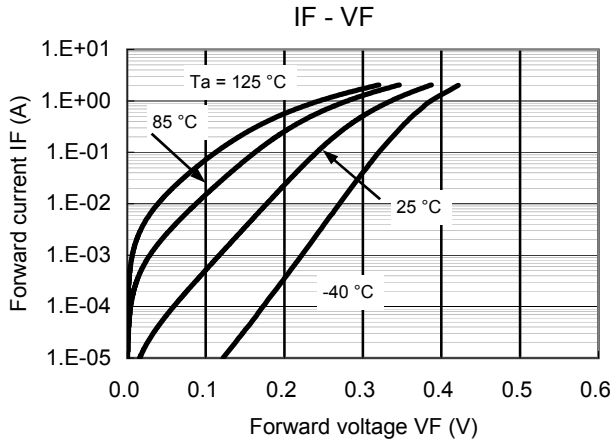
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|--------------------------|--------|--------------------------------------------------------|-----|------|------|---------------|
| Forward voltage | VF | IF = 2 A | | 0.38 | 0.43 | V |
| Reverse current | IR | VR = 30 V | | 50 | 200 | μA |
| Terminal capacitance | Ct | VR = 10 V, f = 1 MHz | | 70 | | pF |
| Reverse recovery time *1 | trr | IF = IR = 100 mA, Irr = 0.1 × IR, RL = 100 Ω | | 23 | | 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





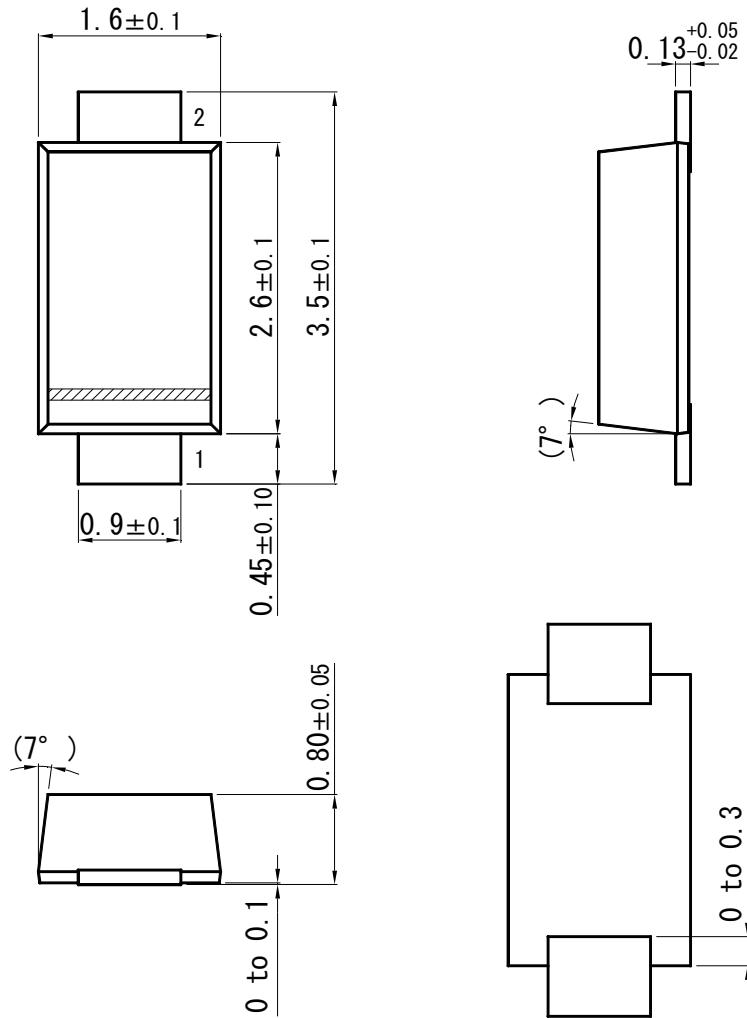
Technical Data (reference)



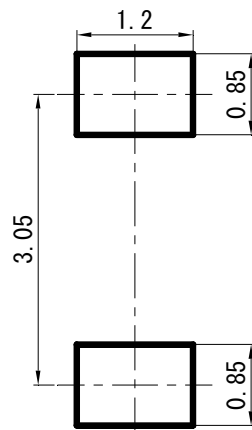


Mini2-F3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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