



DB2130300L  
Silicon epitaxial planar type

For rectification

- Features
- Low forward voltage VF
  - Small reverse leakage current
  - Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

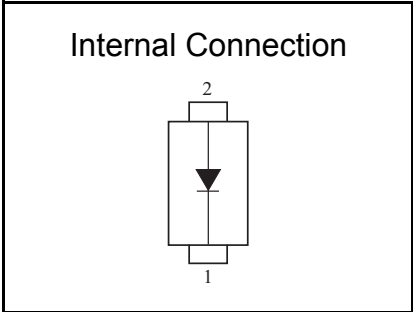
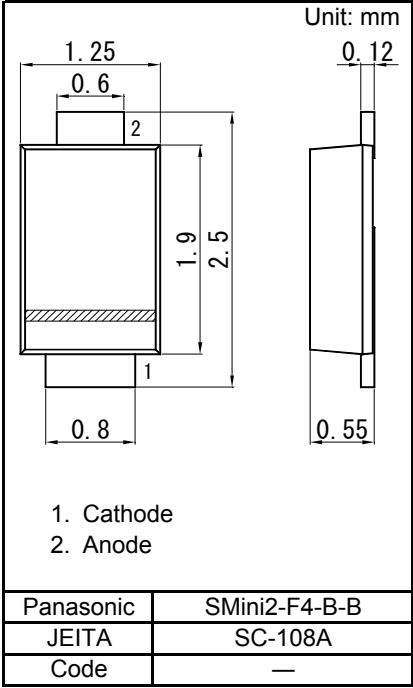
■ Marking Symbol: B4

■ 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    |
| Maximum peak reverse voltage                            | VRM    | 30          | V    |
| Forward current (Average) <sup>*1</sup>                 | IF(AV) | 1.0         | A    |
| Non-repetitive peak forward surge current <sup>*2</sup> | IFSM   | 20          | A    |
| Junction temperature                                    | Tj     | 125         | °C   |
| Operating ambient temperature                           | Topr   | -40 to +85  | °C   |
| Storage temperature                                     | Tstg   | -55 to +125 | °C   |

Note: <sup>\*1</sup> For embedded alumina substrate (substrate size:5 cm × 5 cm)  
<sup>\*2</sup> 50 Hz sine wave 1 cycle (Non-repetitive peak current)

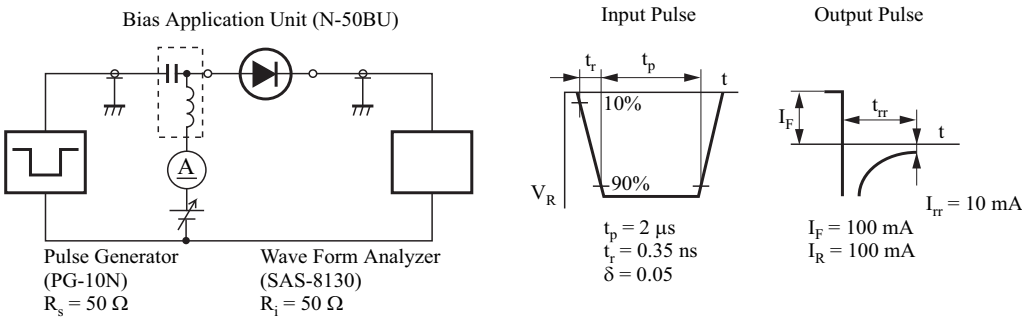




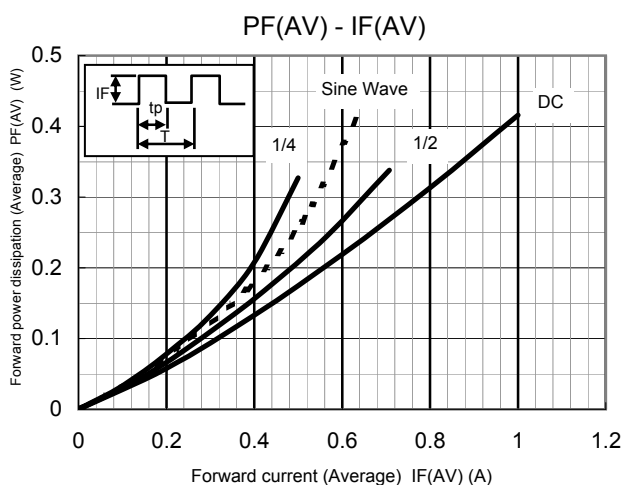
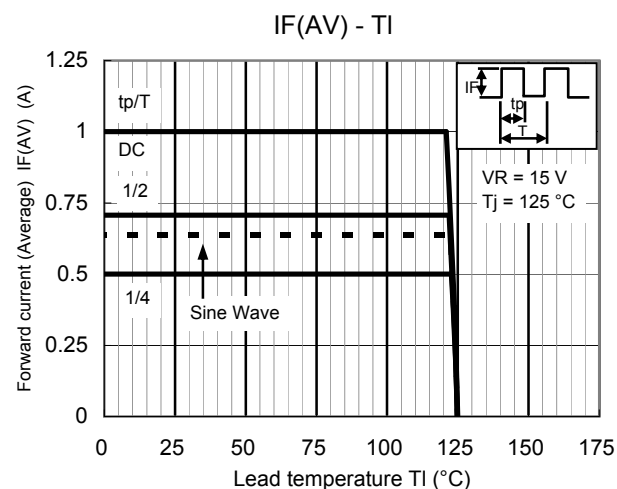
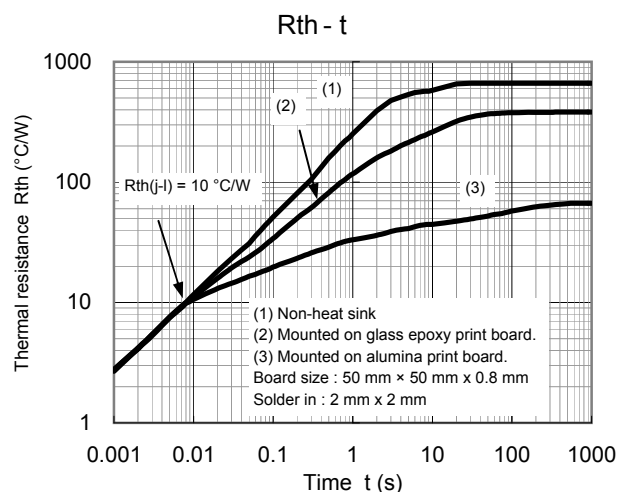
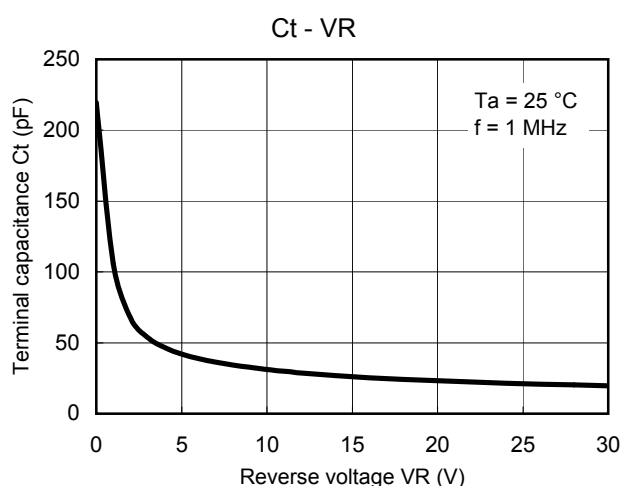
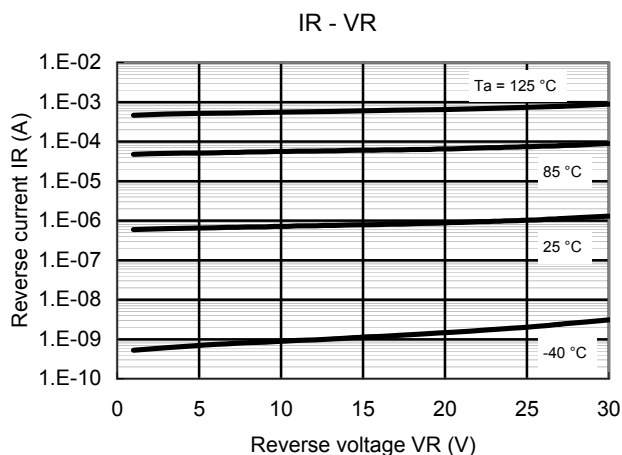
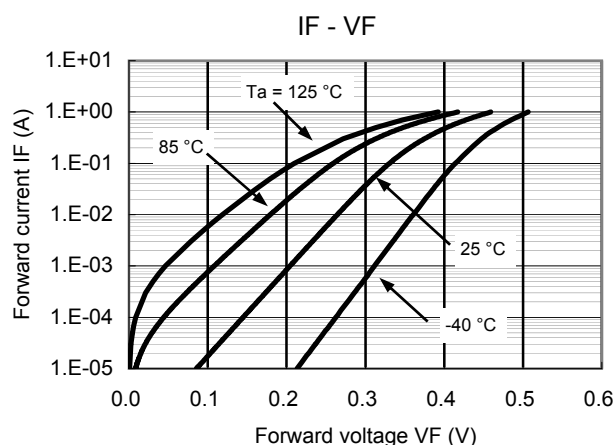
■ Electrical Characteristics Ta = 25 °C ± 3 °C

| Parameter                | Symbol | Conditions                    | Min | Typ | Max  | Unit |
|--------------------------|--------|-------------------------------|-----|-----|------|------|
| Forward voltage          | VF1    | IF = 0.7 A                    |     |     | 0.47 | V    |
|                          | VF2    | IF = 1.0 A                    |     |     | 0.49 |      |
| Reverse current          | IR     | VR = 30 V                     |     |     | 40   | μA   |
| Terminal capacitance     | Ct     | VR = 10 V, f = 1 MHz          |     | 33  |      | pF   |
| Reverse recovery time *1 | trr    | IF = IR = 100 mA, Irr = 10 mA |     | 11  |      | 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



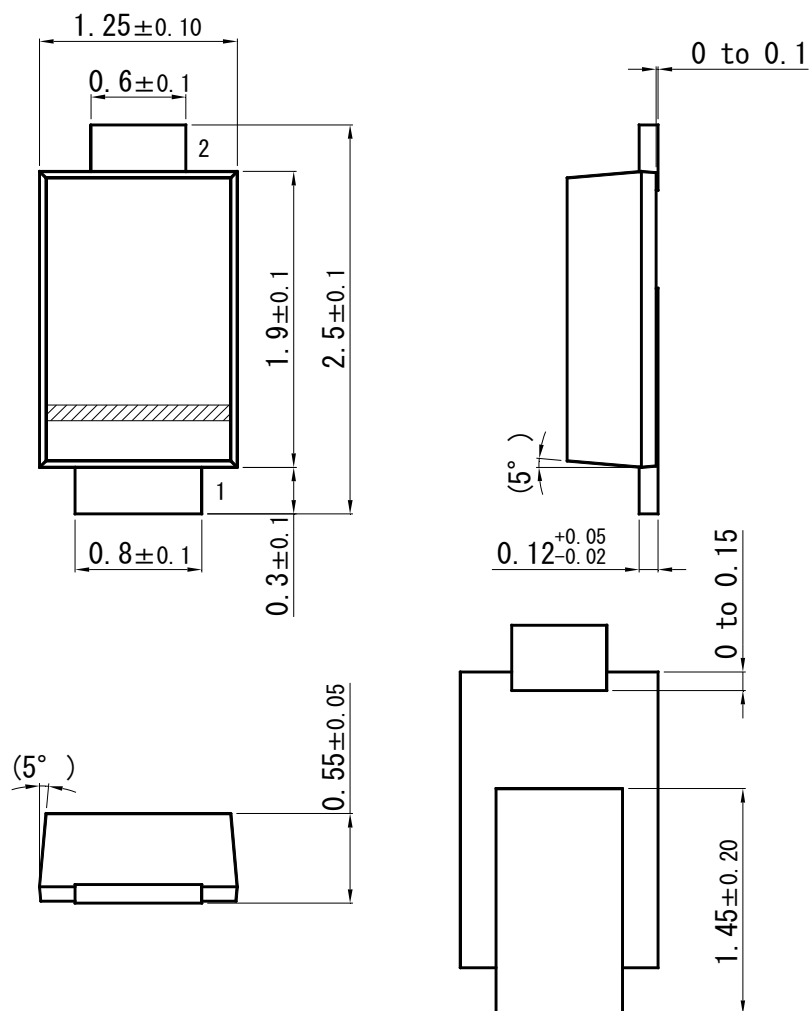
# Technical Data ( reference )



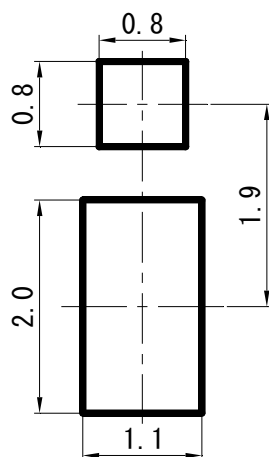
**Panasonic**

SMini2-F4-B-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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