

**Panasonic**

**DB2440400L**

Silicon epitaxial planar type

For rectification

■ Features

- Small reverse current IR
- Forward current (Average) IF(AV) = 3 A rectification is possible
- Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: A8

■ Packaging

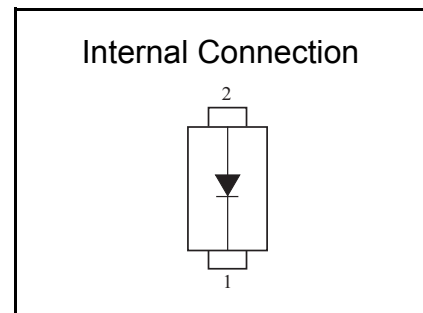
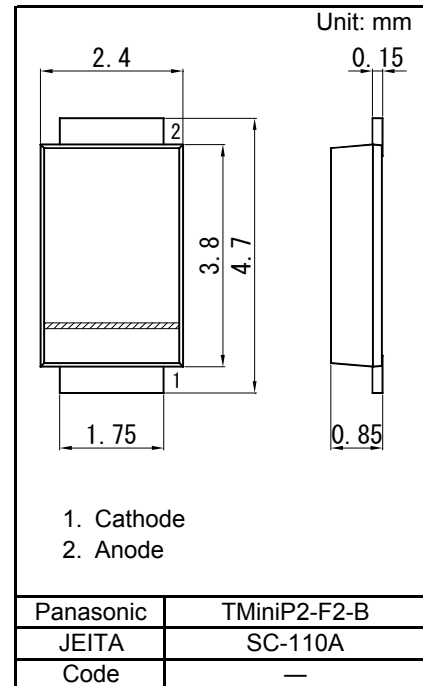
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

| Parameter                                               | Symbol | Rating      | Unit |
|---------------------------------------------------------|--------|-------------|------|
| Reverse voltage                                         | VR     | 40          | V    |
| Repetitive peak reverse voltage                         | VRRM   | 40          | V    |
| Forward current (Average) <sup>*1</sup>                 | IF(AV) | 3.0         | A    |
| Non-repetitive peak forward surge current <sup>*2</sup> | IFSM   | 60          | A    |
| Junction temperature                                    | Tj     | 125         | °C   |
| Operating ambient temperature                           | Topr   | -40 to +85  | °C   |
| Storage temperature                                     | Tstg   | -40 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)

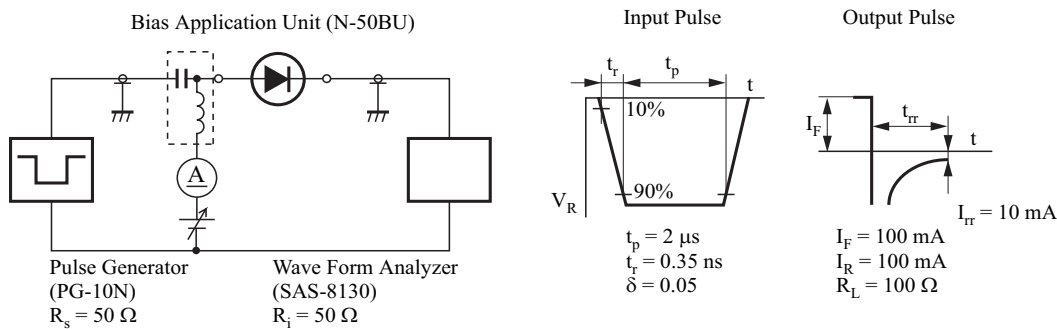




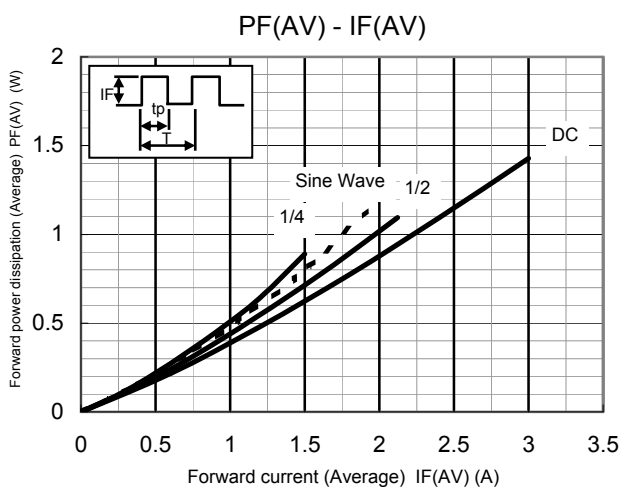
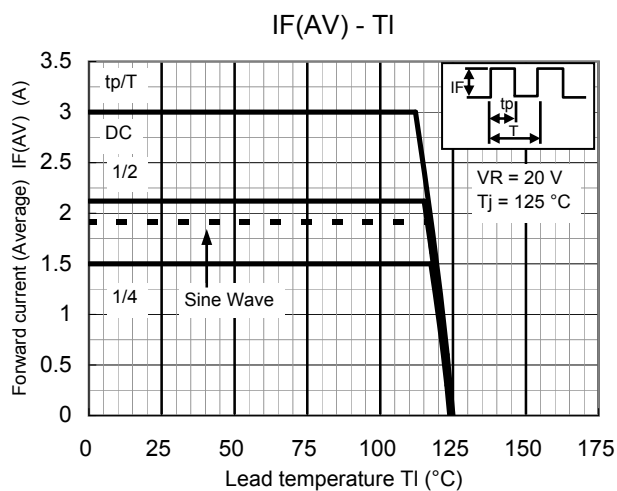
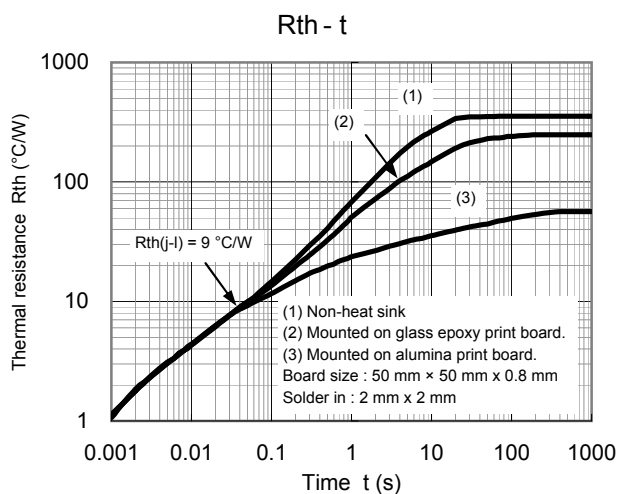
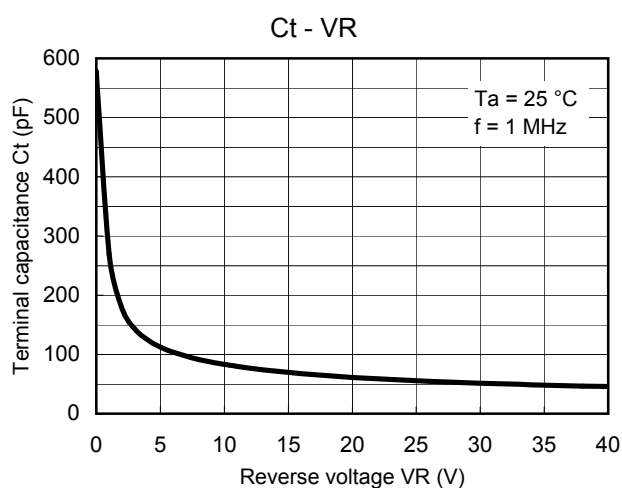
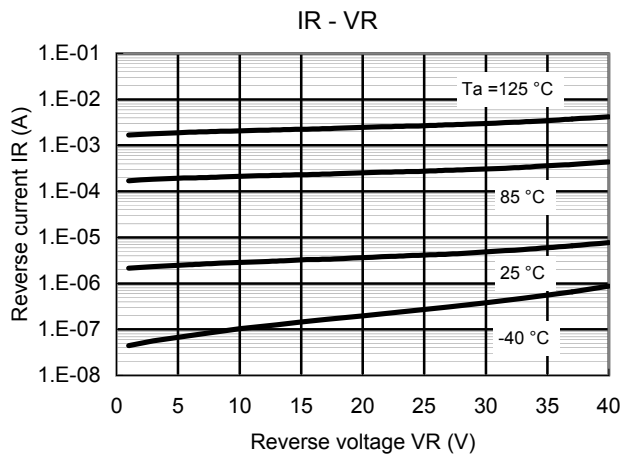
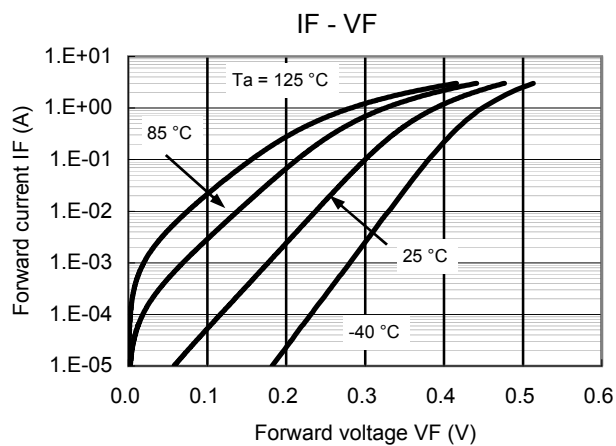
■ Electrical Characteristics Ta = 25 °C ± 3 °C

| Parameter                | Symbol | Conditions                                  | Min | Typ | Max  | Unit |
|--------------------------|--------|---------------------------------------------|-----|-----|------|------|
| Forward voltage          | VF     | IF = 3.0 A                                  |     |     | 0.53 | V    |
| Reverse current          | IR     | VR = 40 V                                   |     |     | 50   | μA   |
| Terminal capacitance     | Ct     | VR = 10 V, f = 1 MHz                        |     | 85  |      | pF   |
| Reverse recovery time *1 | trr    | IF = IR = 100 mA<br>Irr = 10 mA, RL = 100 Ω |     | 30  |      | 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**

TMiniP2-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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