

Fast Recovery Diode DA24F4100L

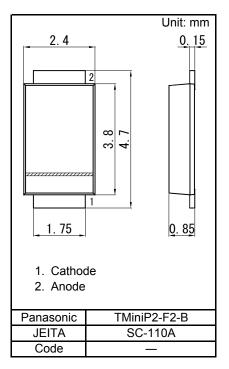
DA24F4100L Silicon epitaxial planar type

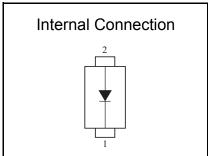
For high speed switching circuits

- Features
- Small reverse current IR
- Short reverse recovery time trr
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 4Q

Packaging

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





#### ■ Absolute Maximum Ratings Ta = 25 °C

| Parameter                                    | Symbol | Rating      | Unit |  |  |  |  |
|--|--------|-------------|------|--|--|--|--|
| Repetitive peak reverse voltage              | VRRM   | 400         | V    |  |  |  |  |
| Non-repetitive peak reverse surge voltage    | VRSM   | 400         | V    |  |  |  |  |
| Forward current                              | IF     | 1.0         | А    |  |  |  |  |
| Non-repetitive peak forward surge current *1 | IFSM   | 20          | А    |  |  |  |  |
| Junction temperature                         | Tj     | -40 to +150 | °C   |  |  |  |  |
| Operating ambient temperature                | Topr   | -40 to +85  | С°   |  |  |  |  |
| Storage temperature                          | Tstg   | -40 to +150 | °C   |  |  |  |  |
|  |        | 0           |      |  |  |  |  |

Note)\*1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

## Panasonic

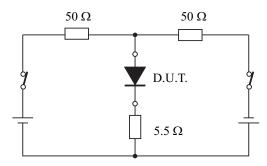
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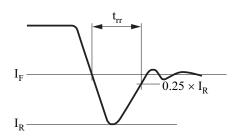
#### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

| Parameter                           | Symbol | Conditions                                 | Min | Тур | Max | Unit |  |  |
|-------------------------------------|--------|--|-----|-----|-----|------|--|--|
| Forward voltage                     | VF     | IF = 1A                                    |     | 1.0 | 1.2 | V    |  |  |
| Reverse current                     | IRRM   | VRRM = 400 V                               |     |     | 10  | μA   |  |  |
| Terminal capacitance                | Ct     | VR = 0 V, f = 1 MHz                        |     | 50  |     | pF   |  |  |
| Reverse recovery time <sup>*1</sup> | trr    | IF = 0.5 A , IR = 1.0 A<br>Irr = 0.25 × IR |     | 15  | 45  | 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

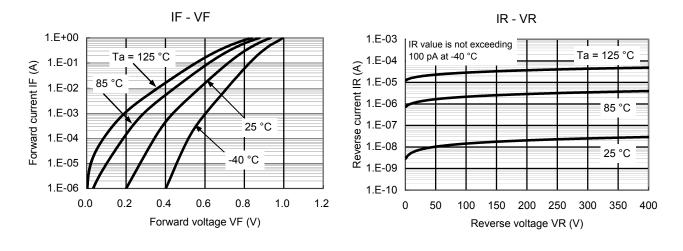


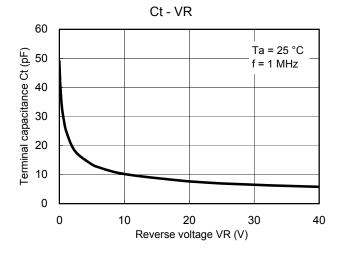




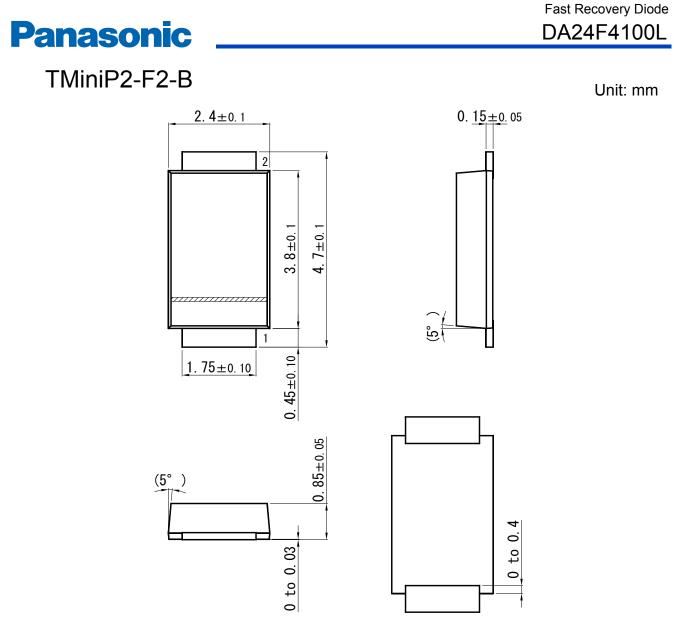
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### Technical Data (reference)

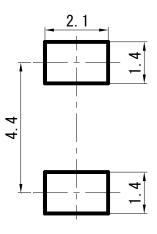




Established : 2010-03-18 Revised : 2013-05-24



Land Pattern (Reference) (Unit: mm)



Established : 2010-03-18 Revised : 2013-05-24

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