

DY2J25000L

Silicon epitaxial planar type

For high surge protection
Capability of withstanding a high surge type

■ Features

- High ESD
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 25

■ Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

| Parameter | Symbol | Rating | Unit |
|-------------------------------|--------|-------------|------|
| Peak pulse power*1 | Ppp | 450 | W |
| Peak pulse current*1 | Ipp | 9 | A |
| Maximum peak reverse voltage | VRM | 18 | V |
| Total power dissipation*2 | PT | 200 | mW |
| Electrostatic discharge*3 | ESD | ±30 | kV |
| Junction temperature | Tj | 150 | °C |
| Operating ambient temperature | Topr | -40 to +85 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

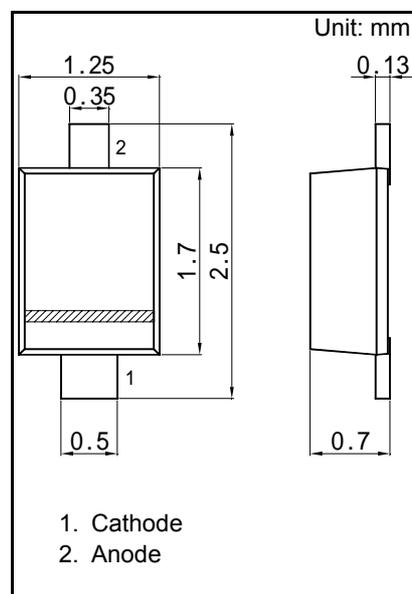
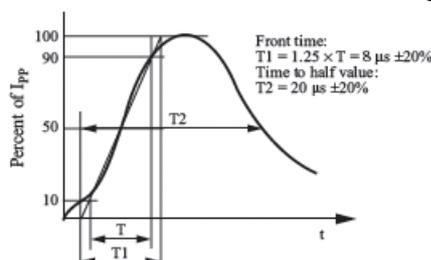
Note) *1: Test method : IEC61000-4-5 (tp = 8/20ms, Unrepeated)
 *2: Mounted on glass epoxy print board. (45 mm x 45 mm x 1 mm)
 Solder in (Recommended land pattern)
 *3: Test method:IEC61000_4_2(C = 150 pF,R = 330 Ω, Contact discharge:10 times)

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

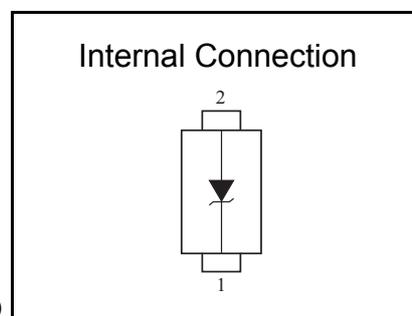
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|----------------------|--------|---------------------------|-------|-------|-------|------|
| Breakdown voltage*1 | VBR | IR = 1 mA | 22.50 | 25.00 | 27.50 | V |
| Reverse current | IR | VR = 18.0 V | | | 10.0 | μA |
| Clamping voltage*2 | VC | IPP = 9.0 A, tp = 8/20 μs | | | 50.0 | V |
| Terminal capacitance | Ct | VR = 0 V, f = 1 MHz | | 97.0 | | pF |

Note) 1 Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

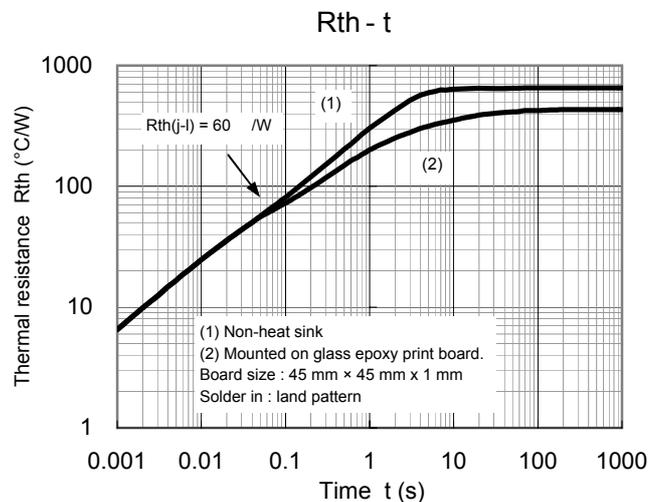
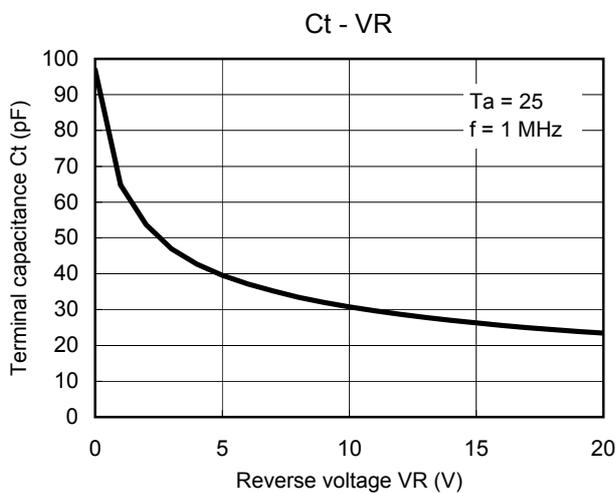
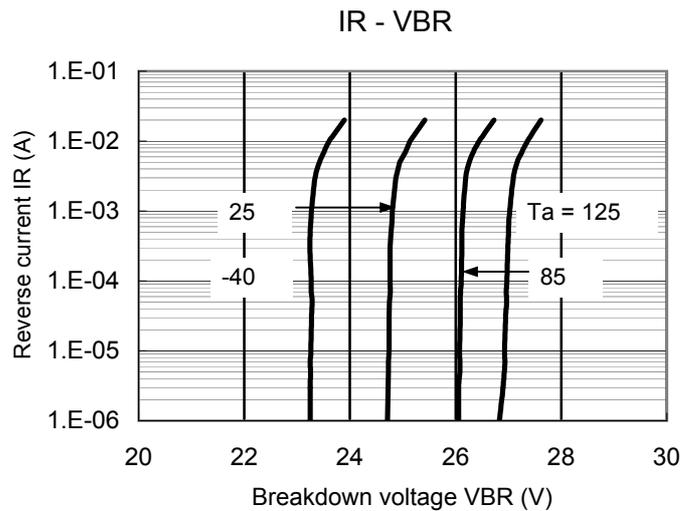
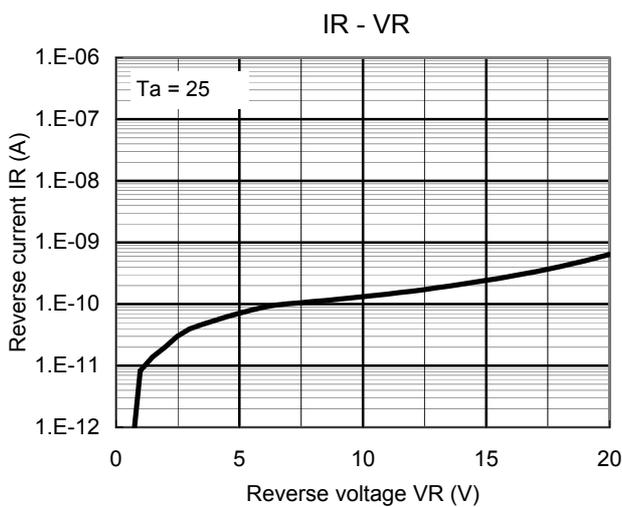
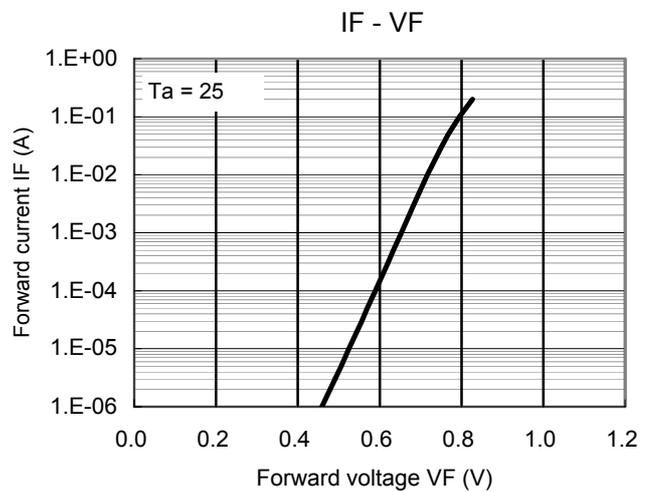
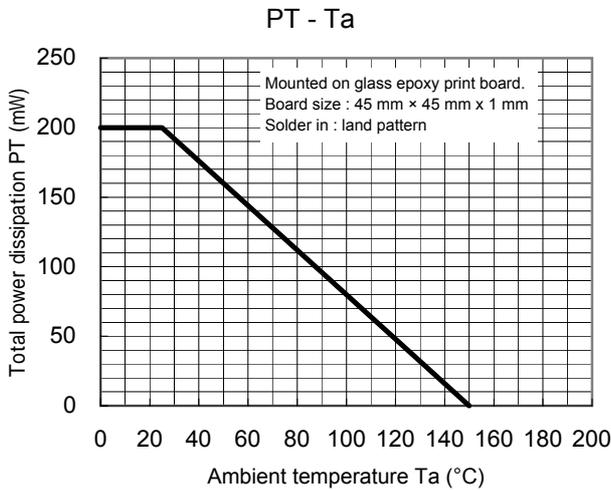
2. *1: VBR guaranteed 20 ms after current flow.
 *2: Pulse Waveform



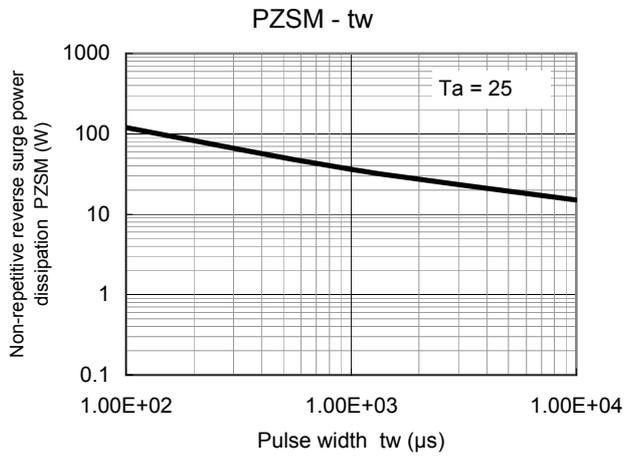
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|-----------|-------------|
| Panasonic | SMini2-F5-B |
| JEITA | SC-90A |
| Code | — |



Technical Data (reference)

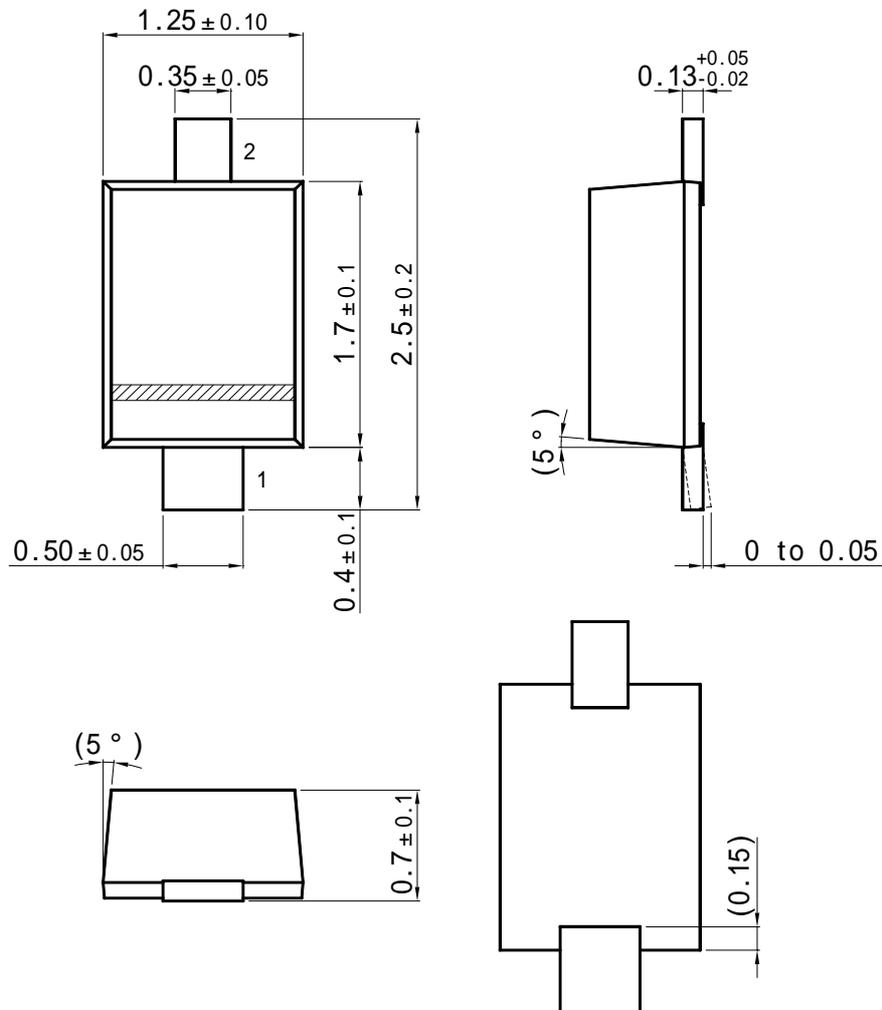


Technical Data (reference)

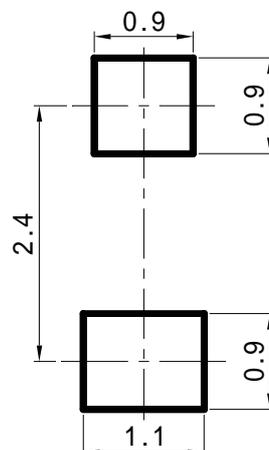


SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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