

Zener Diode

DZ3X068D0L Silicon epitaxial planar type

For surge absorption circuit

- Features
- · Excellent rising characteristics of zener current Iz
- Low zener operating resistance Rz
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

Marking Symbol: 02

Packaging

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

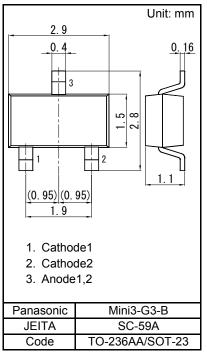
■ Absolute Maximum Ratings Ta = 25 °C

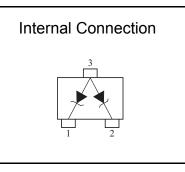
| Parameter | Symbol | Rating | Unit |
|---------------------------------------|--------|-------------|------|
| Total power dissipation ^{*1} | PT | 200 | mW |
| Electrostatic discharge ^{*2} | ESD | ±10 | kV |
| Junction temperature | Tj | 150 | °C |
| Operating ambient temperature | Topr | -40 to +85 | °C |
| Storage temperature | Tsta | -55 to +150 | °C |

Note) *1: Mounted on glass epoxy print board. (45 mm x 45 mm x 1 mm) (2 Diode total)

Solder in (1.0 mm x 1.0 mm)

*2: 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 | Тур | Max | Unit |
|---|--------|-------------|------|-----|------|-------|
| Forward voltage | VF | IF = 10 mA | | | 1.0 | V |
| Zener voltage *1, *2 | VZ | IZ = 5 mA | 6.46 | | 7.14 | V |
| Zener operating resistance | RZ | IZ = 5 mA | | | 30 | Ω |
| Zener rise operating resistance | RZK | IZ = 0.5 mA | | | 60 | Ω |
| Reverse current | IR | VR = 4 V | | | 0.1 | μA |
| Temperature coefficient of zener voltage *3 | SZ | IZ = 5 mA | | 3.1 | | mV/°C |

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

2. *1: The temperature must be controlled 25°C for VZ mesurement.

VZ value measured at other temperature must be adjusted to VZ (25°C)

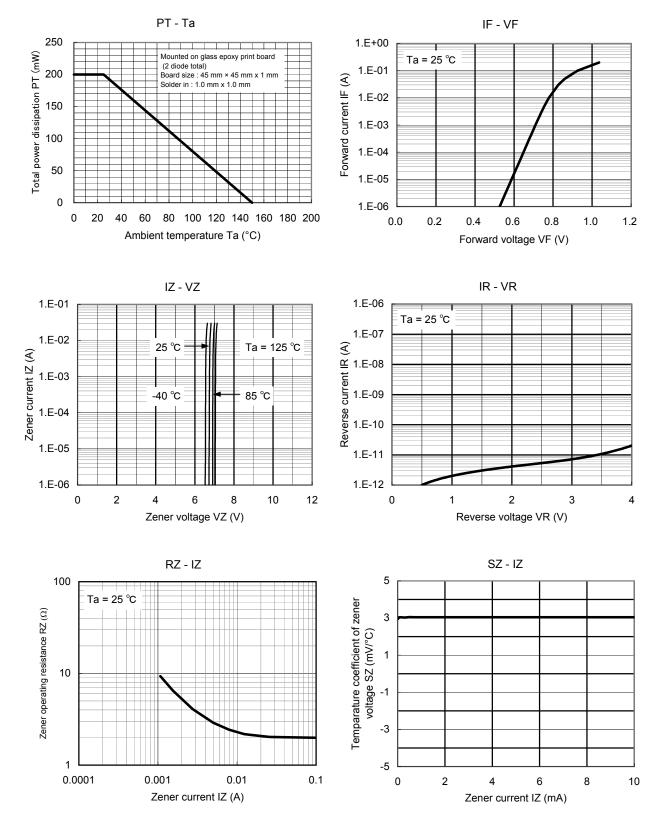
*2: VZ guaranted 20 ms after current flow.

*3: Tj = 25°C to 150°C



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Technical Data (reference)

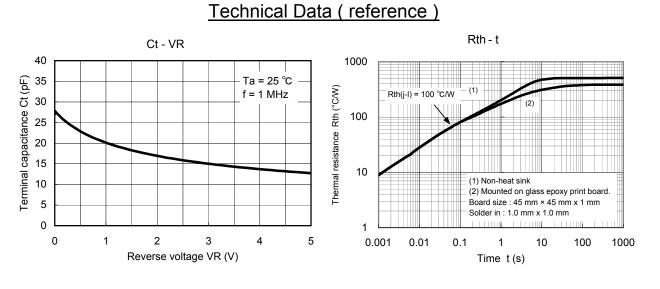


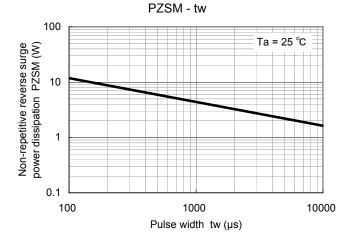
Established : 2010-05-17 Revised : 2013-10-28

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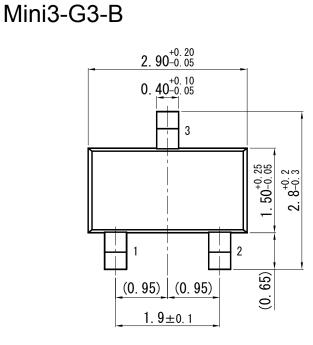


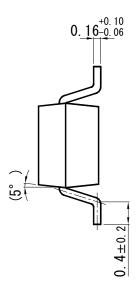


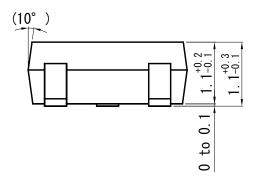


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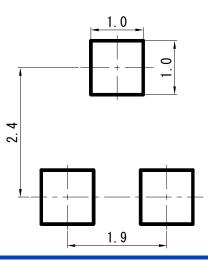
Unit: mm







Land Pattern (Reference) (Unit: mm)



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