



DZ37062D0L

Silicon epitaxial planar type

For surge absorption circuit

■ Features

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

■ Marking Symbol: 01

■ Packaging

Embossed type (Thermo-compression sealing) 10 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

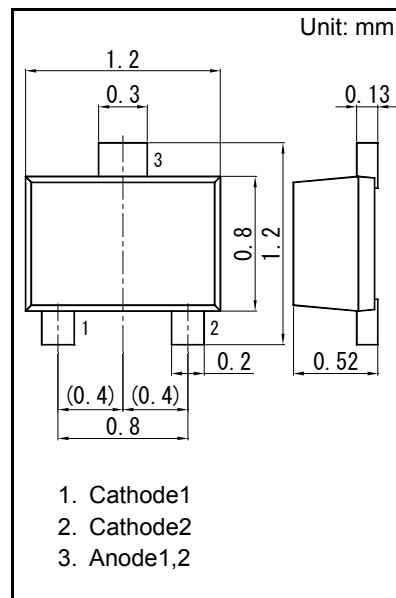
| Parameter | Symbol | Rating | Unit |
|---------------------------------------|------------------|-------------|------|
| Total power dissipation ^{*1} | PT | 150 | mW |
| Electrostatic discharge ^{*2} | ESD | ±10 | kV |
| Junction temperature | T _j | 150 | °C |
| Operating ambient temperature | T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

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

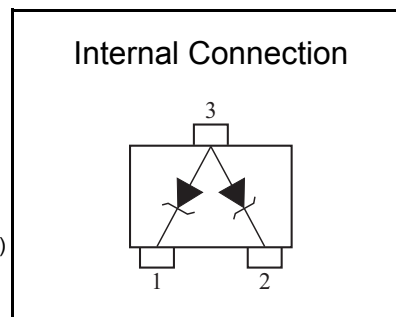
(2 Diode total)

Solder in (Recommended land pattern)

*2: Test method:IEC61000_4_2(C = 150 pF,R = 330 Ω, Contact discharge:10 times)



| | |
|-----------|---------------|
| Panasonic | SSSMini3-F2-B |
| JEITA | SC-105AA |
| Code | SOT-723 |



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

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|--|-----------------|-------------------------|------|-----|------|-------|
| Forward voltage | V _F | I _F = 10 mA | | | 1.0 | V |
| Zener voltage ^{*1, *2} | V _Z | I _Z = 5 mA | 5.89 | | 6.51 | V |
| Zener operating resistance | R _Z | I _Z = 5 mA | | | 50 | Ω |
| Zener rise operating resistance | R _{ZK} | I _Z = 0.5 mA | | | 100 | Ω |
| Reverse current | I _R | V _R = 4 V | | | 0.2 | μA |
| Temperature coefficient of zener voltage ^{*3} | SZ | I _Z = 5 mA | | 2.3 | | mV/°C |

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

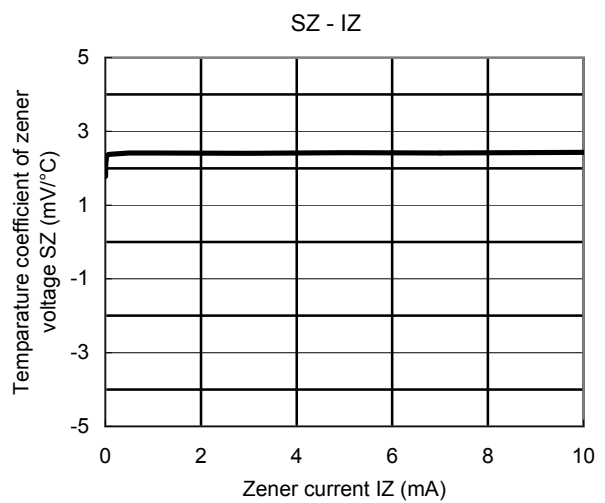
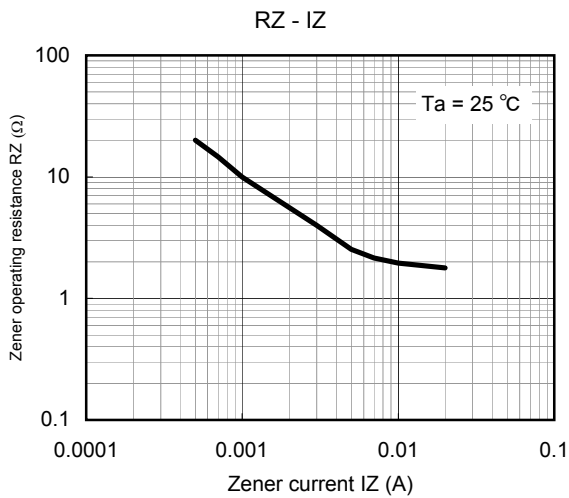
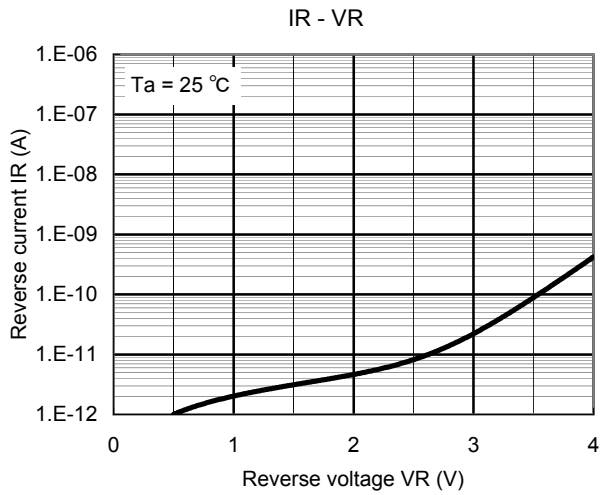
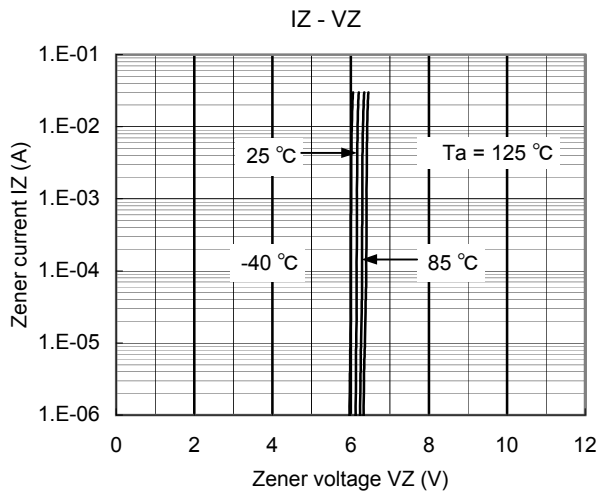
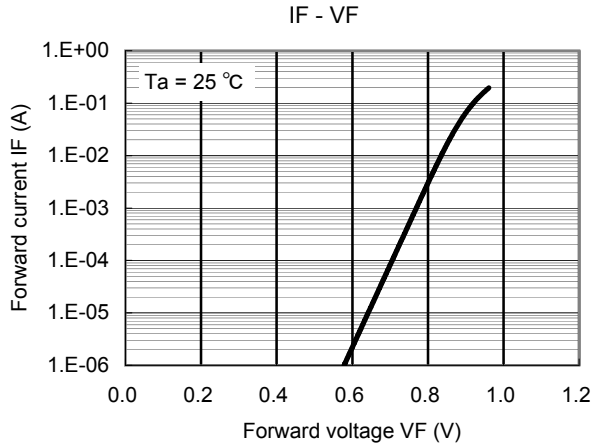
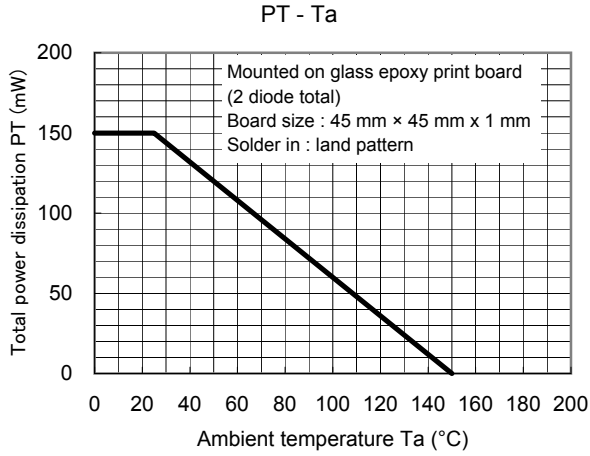
2. *1: The temperature must be controlled 25°C for V_Z measurement.

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

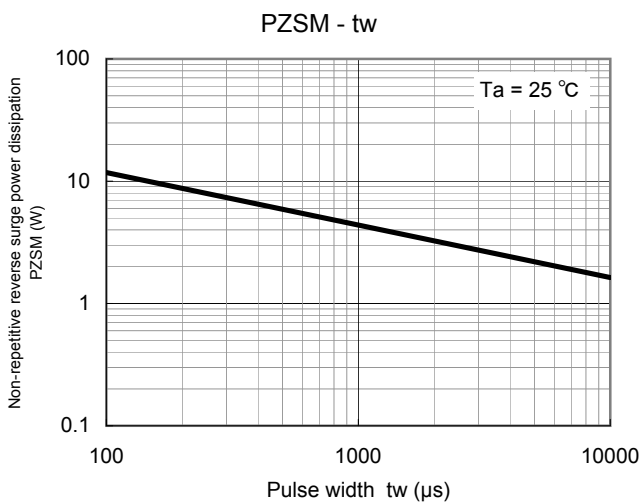
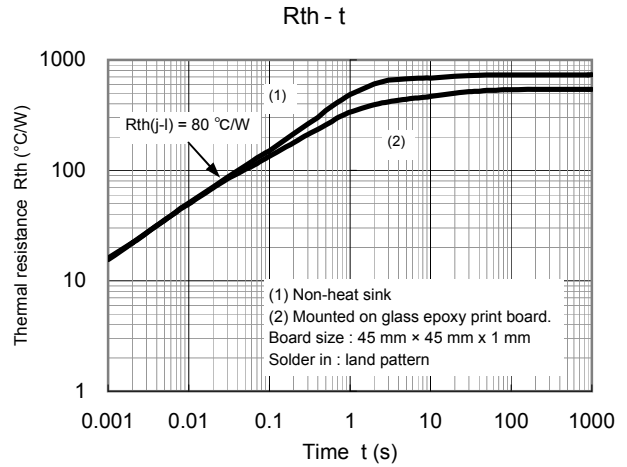
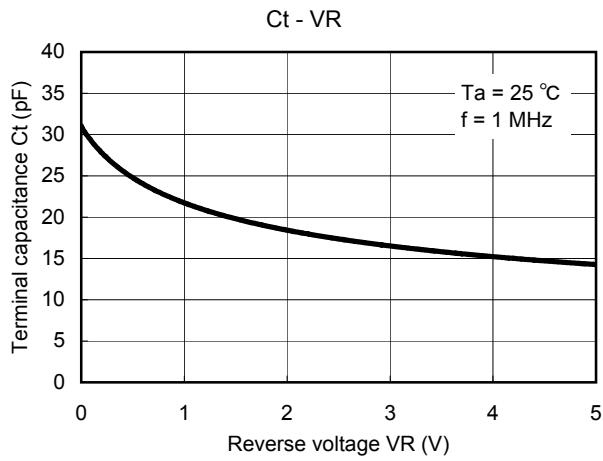
*2: V_Z guaranteed 20 ms after current flow.

*3: T_j = 25°C to 150°C

Technical Data (reference)



Technical Data (reference)



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