Zener Diode

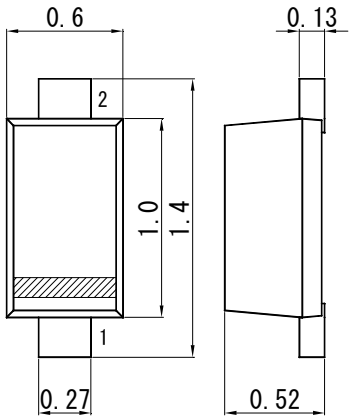
Panasonic DZ2718000L

# DZ2718000L

## Silicon epitaxial planar type

For constant voltage / For surge absorption circuit
DZ2S180 in SSSMini2 type package

Unit: mm




1. Cathode
2. Anode

| | |
|---|---|
| Panasonic | SSSMini2-F4-B |
| JEITA | SC-104A |
| Code | SOD-723 |

### ■ 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: YJ

### ■ Packaging

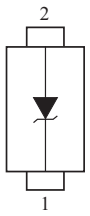
Embossed type (Thermo-compression sealing) 10 000 pcs / reel (standard)

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

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Repetitive peak forward current | IFRM | 200 | mA |
| Total power dissipation *1 | PT | 120 | mW |
| Electrostatic discharge *2 | ESD | ±8 | kV |
| Junction temperature | Tj | 150 | °C |
| Operating ambient temperature | Topr | -40 to +85 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

Note) *1: Mounted on glass epoxy print board. ( 45 mm x 45 mm x 1 mm)
Solder in ( 0.4 mm x 0.3 mm)
*2: Test method:IEC61000_4_2(C = 150 pF,R = 330 Ω, Contact discharge:10 times)

### Internal Connection




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

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Forward voltage | VF | IF = 10 mA | | | 1.0 | V |
| Zener voltage *1, *2 | VZ | IZ = 5 mA | 17.10 | | 18.90 | V |
| Zener operating resistance | RZ | IZ = 5 mA | | | 60 | Ω |
| Zener rise operating resistance | RZK | IZ = 0.5 mA | | | 80 | Ω |
| Reverse current | IR | VR = 13 V | | | 0.05 | μA |
| Temperature coefficient of zener voltage *3 | SZ | IZ = 5 mA | | 17.2 | | mV/°C |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.
2. Absolute frequency of input and output is 5 MHz.
3. *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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Revised : 2013-10-16

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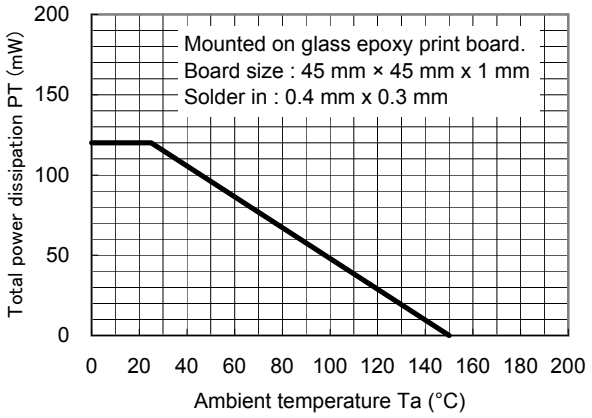
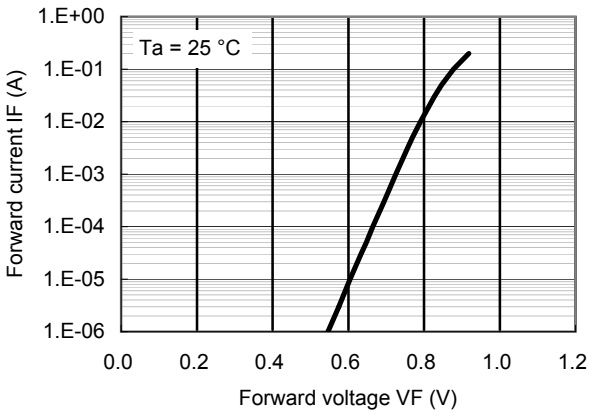
## Technical Data ( reference )

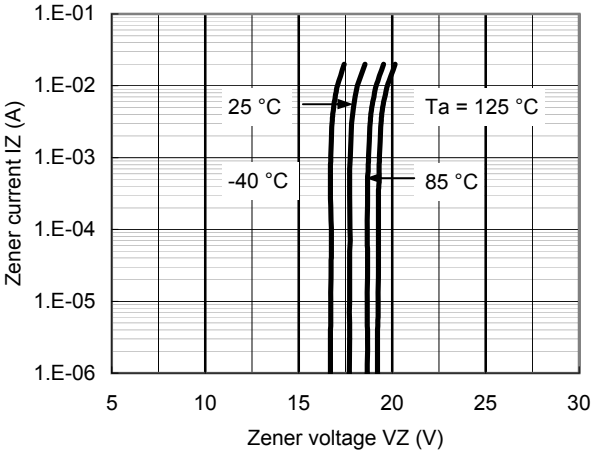
PT - Ta



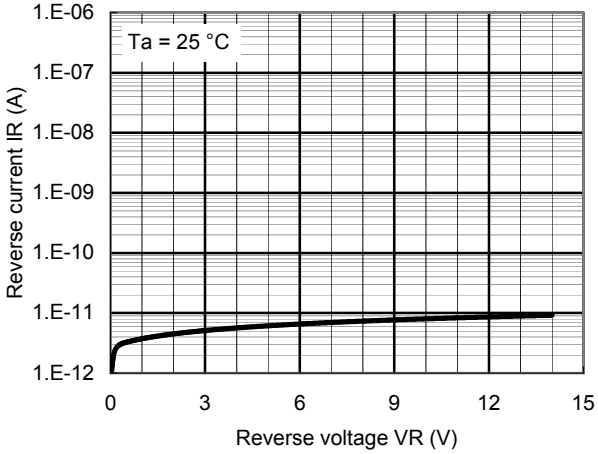

IF - VF



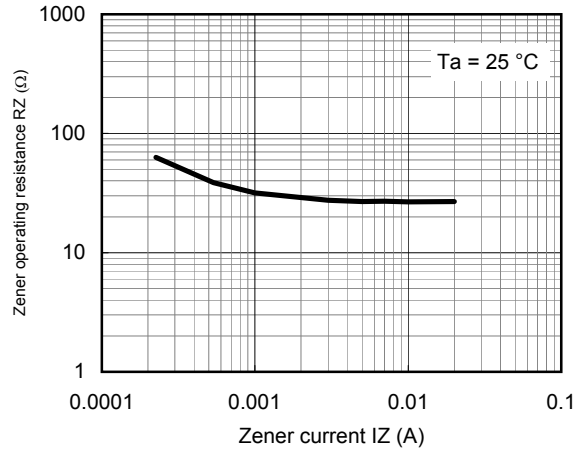

IZ - VZ



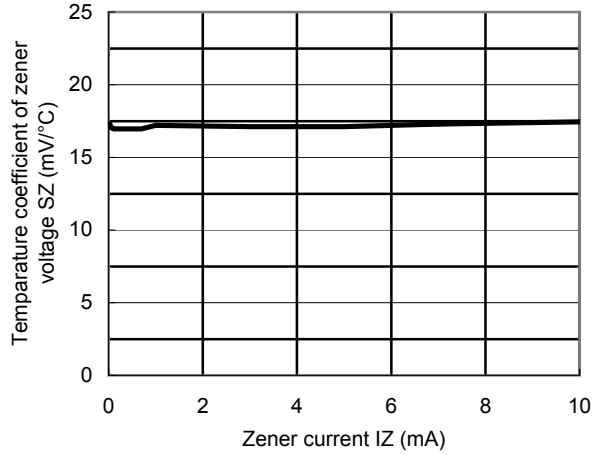

IR - VR




RZ-IZ




SZ - IZ



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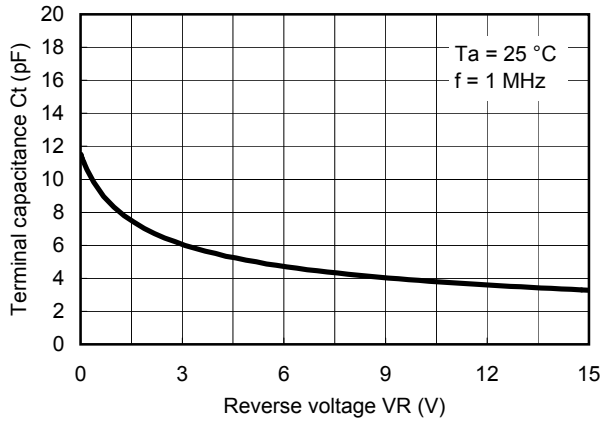
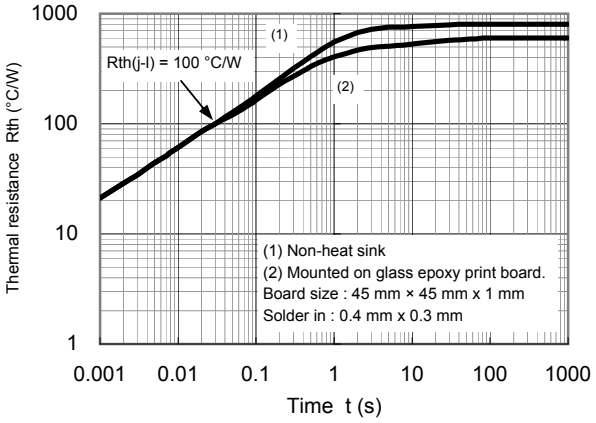
## Technical Data ( reference )

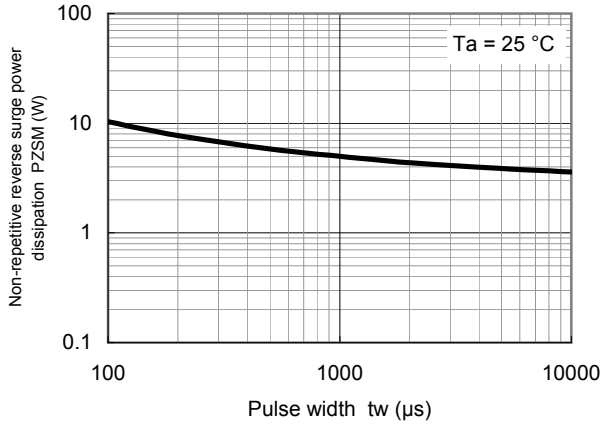
Ct - VR




Rth - t




PZSM - tw



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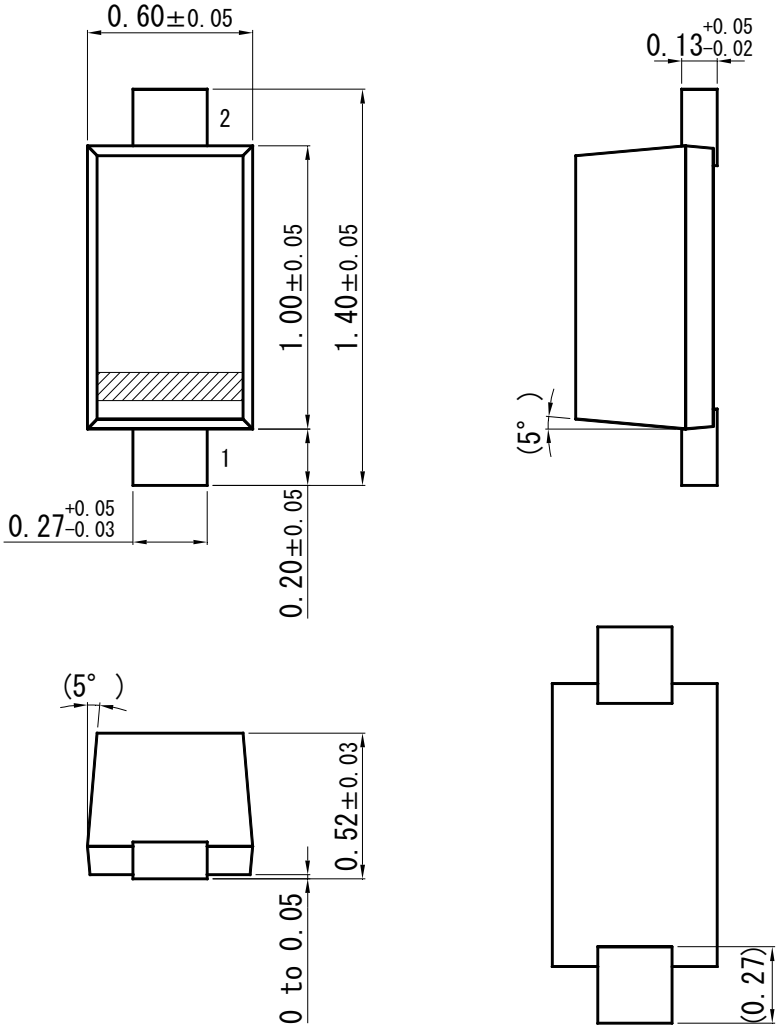
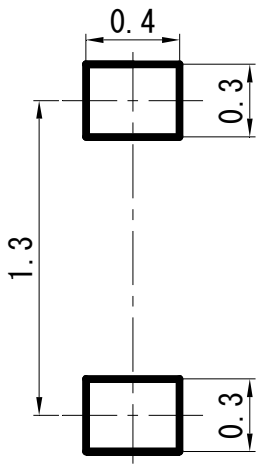
# SSSMini2-F4-B

Unit: mm




■ Land Pattern (Reference) (Unit: mm)



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