Zener Diode

Panasonic DE2704300L

# DE2704300L

## Silicon epitaxial planar type

For ESD protection
DE2S043 in SSSMini2 type package

■ Features

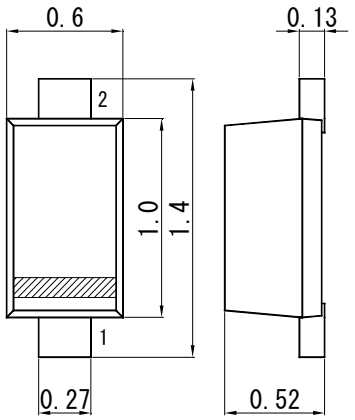
- High ESD
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 9C

■ Packaging

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

Unit: mm




1. Cathode
2. Anode

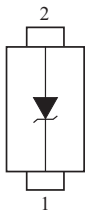
| | |
|---|---|
| Panasonic | SSSMini2-F4-B |
| JEITA | SC-104A |
| Code | SOD-723 |

■ Absolute Maximum Ratings Ta = 25 °C

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Total power dissipation *1 | PT | 120 | mW |
| Electrostatic discharge *2 | 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: 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 |
|---|---|---|---|---|---|---|
| Zener voltage *1,*2 | VZ | IZ = 1 mA | 4.09 | | 4.52 | V |
| Reverse current | IR | VR = 1 V | | | 10.0 | μA |
| Terminal capacitance | Ct | VR = 0V, f = 1 MHz | | 91 | | pF |
| Temperature coefficient of zener voltage *3 | SZ | IZ = 1 mA | | -2.1 | | 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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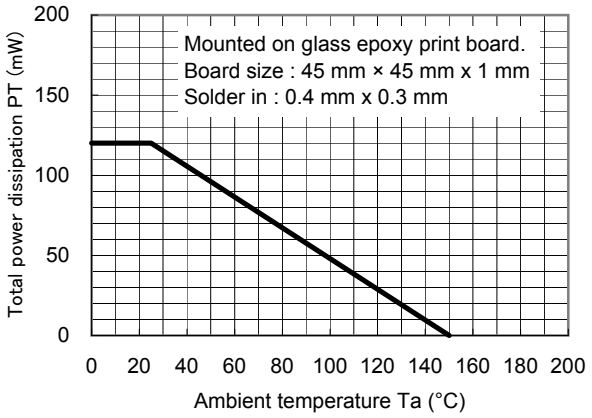
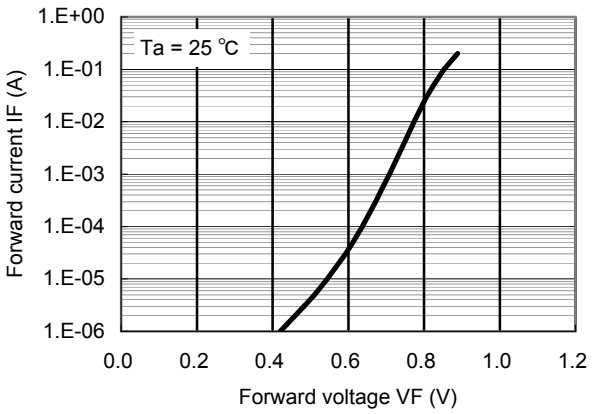
## Technical Data ( reference )

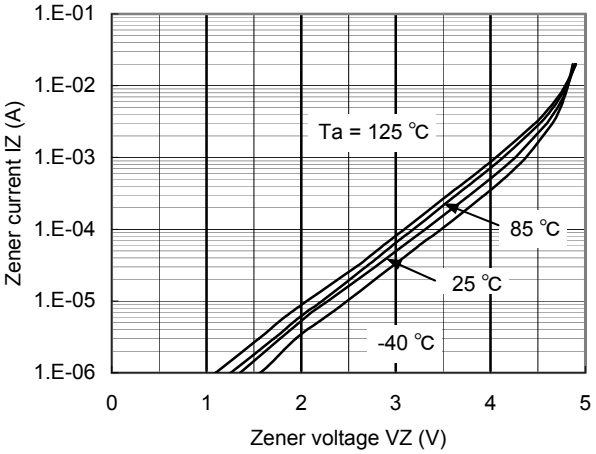
PT - Ta



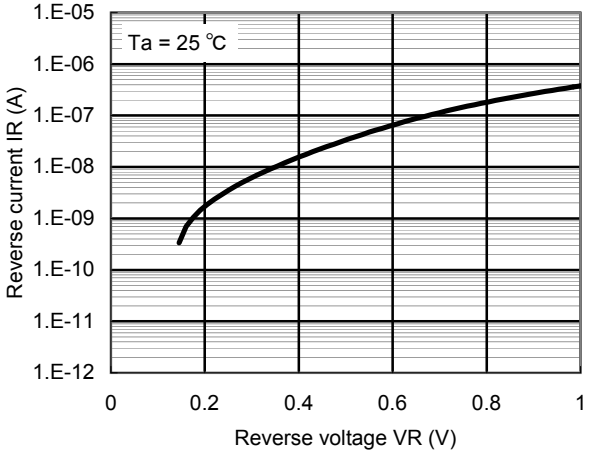

IF - VF



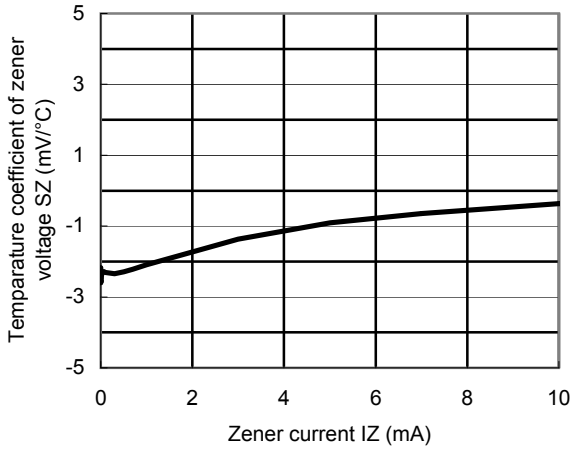

IZ - VZ



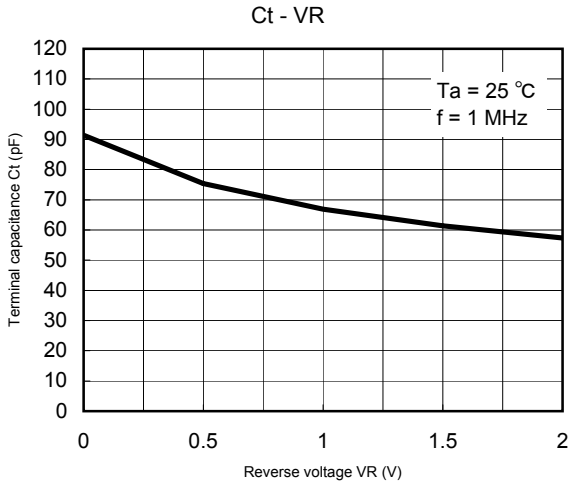

IR - VR




SZ - IZ




Ct - VR



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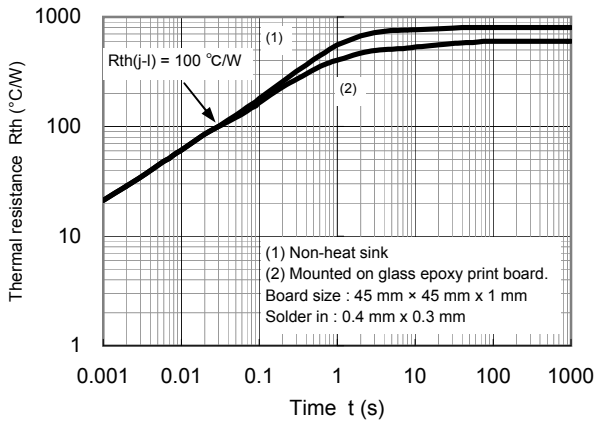
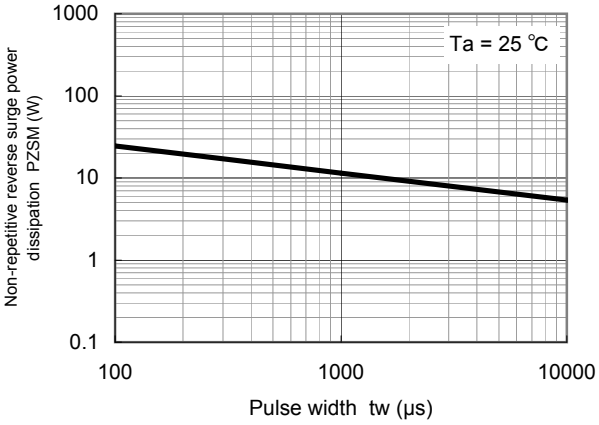
## Technical Data ( reference )

Rth - t




PZSM - tw



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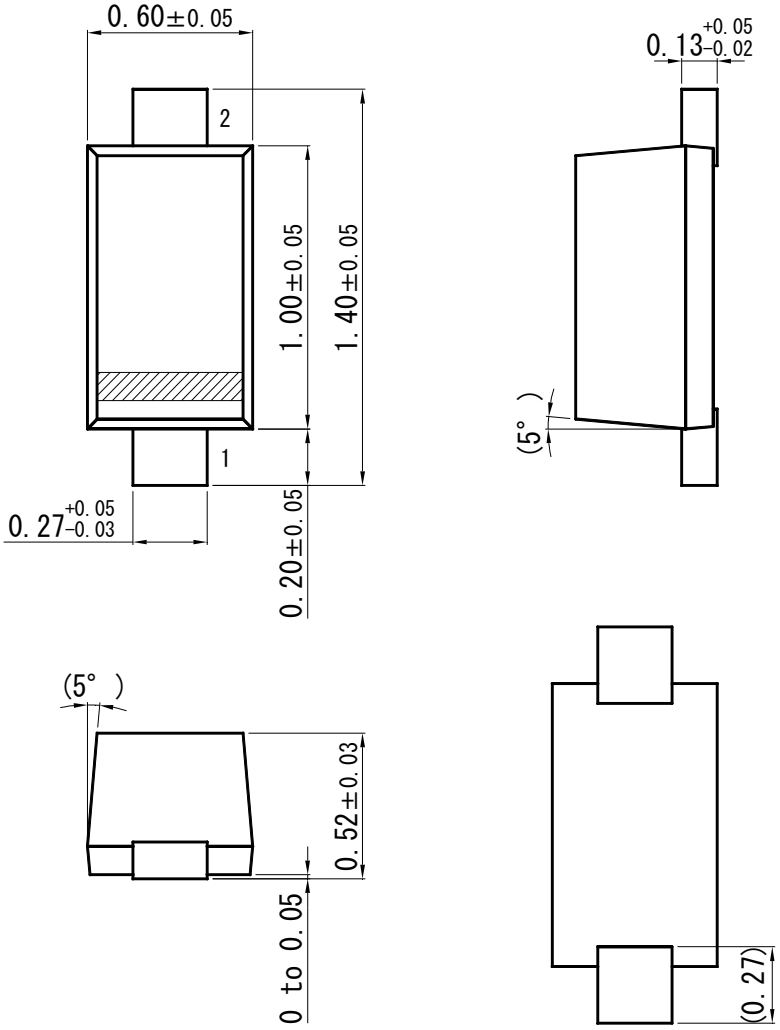
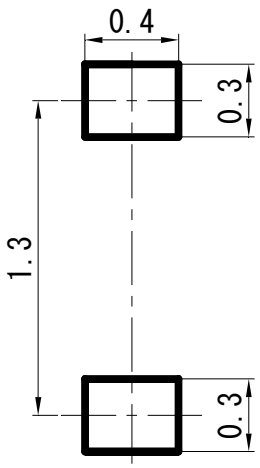
# SSSMini2-F4-B

Unit: mm




■ Land Pattern (Reference) (Unit: mm)



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