# imall

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## Panasonic

Zener Diode DZ2711000L

### DZ2711000L Silicon epitaxial planar type

## For constant voltage / For surge absorption circuit DZ2S110 in SSSMini2 type package

#### 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: PJ

#### Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

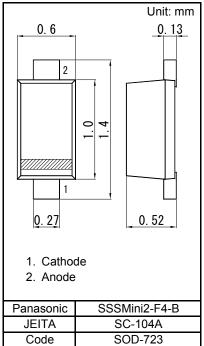
| Parameter                             | Symbol | Rating     | Unit |
|---------------------------------------|--------|------------|------|
| Repetitive peak forward current       | IFRM   | 200        | mA   |
| Total power dissipation <sup>*1</sup> | PT     | 120        | mW   |
| Electrostatic discharge *2            | ESD    | ±8         | kV   |
| Junction temperature                  | Tj     | 150        | °C   |
| Operating ambient temperature         | Topr   | -40 to +85 | °C   |
|                                       | Tata   | EE to 1450 | ŝ    |

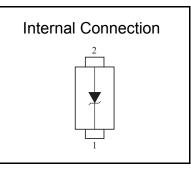
 

 Storage temperature
 Tstg
 -55 to +150
 °(

 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)
 Solder in (0.4 mm x 0.3 mm)

\*2: Test method: IEC61000 4 2(C = 150 pF, R = 330  $\Omega$ , Contact discharge: 10 times)





### Electrical Characteristics Ta = $25 \circ C \pm 3 \circ C$

| Parameter                                   | Symbol | Conditions  | Min   | Тур | Max   | Unit  |
|---|--------|-------------|-------|-----|-------|-------|
| Forward voltage                             | VF     | IF = 10 mA  |       |     | 1.0   | V     |
| Zener voltage *1, *2                        | VZ     | IZ = 5 mA   | 10.45 |     | 11.55 | 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 = 8.0 V  |       |     | 0.05  | μA    |
| Temperature coefficient of zener voltage *3 | SZ     | IZ = 5 mA   |       | 8.3 |       | 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)

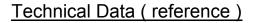
\*2 VZ guaranted 20 ms after current flow.

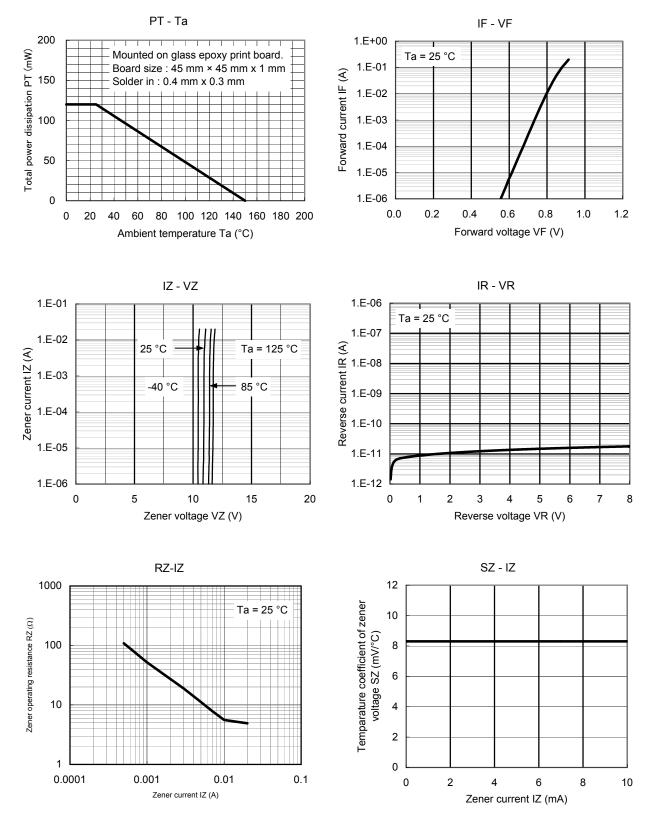
\*3 Tj = 25 °C to 150 °C





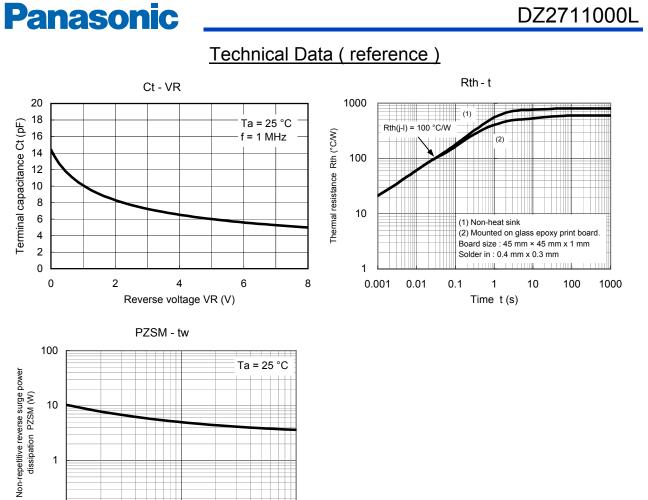
Zener Diode DZ2711000L





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10000

## Zener Diode DZ2711000L

0.1 100

1000

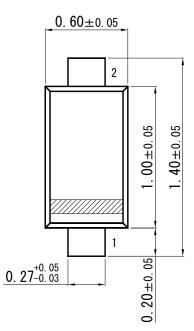
Pulse width tw (µs)

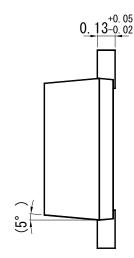


Zener Diode DZ2711000L

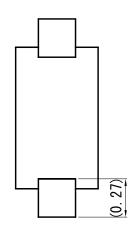
Unit: mm

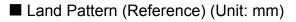
SSSMini2-F4-B

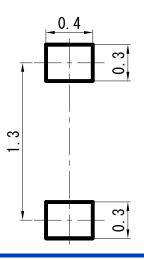




 $\begin{array}{c|c} 0 & to & 0.05 \\ \hline 0.52 \pm 0.03 \\ \hline 0.52 \pm 0.03 \\ \hline \end{array}$ 







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