# Panasonic

Zener Diode DZ2S360×0L

## DZ2S360×0L Silicon epitaxial planar type

## For constant voltage / For surge absorption circuit DZ2J360 in SSMini2 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: JG or JR

#### Packaging

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

| _ | ■ Absolute Maximum Ratings Ta = 25 °C |        |             |      |  |  |  |  |
|---|---------------------------------------|--------|-------------|------|--|--|--|--|
| 1 | Parameter                             | Symbol | Rating      | Unit |  |  |  |  |
|   | Repetitive peak forward current       | IFRM   | 200         | mA   |  |  |  |  |
|   | Total power dissipation <sup>*1</sup> | PT     | 150         | mW   |  |  |  |  |
|   | Electrostatic discharge <sup>*2</sup> | ESD    | ±8          | kV   |  |  |  |  |
|   | Junction temperature                  | Tj     | 150         | °C   |  |  |  |  |
|   | Operating ambient temperature         | Topr   | -40 to +85  | °C   |  |  |  |  |
|   | Storage temperature                   | Tstg   | -55 to +150 | °C   |  |  |  |  |

 
 Storage temperature
 Tstg
 -55
 to
 +150
 °C

 Note)
 \*1
 Mounted on glass epoxy print board (45 mm × 45 mm × 1 mm ) Solder in (0.8 mm × 0.6 mm )
 Solder in (0.8 mm × 0.6 mm )

\*2 Test method : IEC61000\_4\_2

(C = 150 pF, R = 330  $\Omega$ , Contact discharge : 10 times )

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

\*3 Tj = 25 °C to 150 °C

| Electrical characteristics $Ta = 25 \degree C \pm 3 \degree C$ |        |             |       |      |       |       |  |
|--|--------|-------------|-------|------|-------|-------|--|
| Parameter  | Symbol | Conditions  | Min   | Тур  | Max   | Unit  |  |
| Forward voltage  | VF     | IF = 10 mA  |       |      | 1.0   | V     |  |
| Zener voltage *1, *2   | VZ     | IZ = 2 mA   | 34.20 |      | 37.80 | V     |  |
| Zener operating resistance                                     | RZ     | IZ = 2 mA   |       |      | 250   | Ω     |  |
| Zener rise operating resistance                                | RZK    | IZ = 0.5 mA |       |      | 250   | Ω     |  |
| Reverse current  | IR     | VR = 27 V   |       |      | 0.05  | μA    |  |
| Temperature coefficient of zener voltage *3                    | SZ     | IZ = 2 mA   |       | 35.4 |       | mV/°C |  |

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

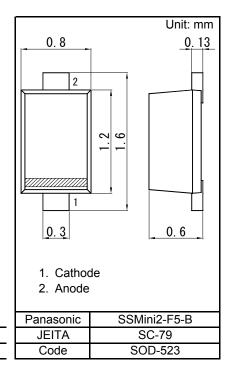
2. Absolute frequency of input and output is 5 MHz.

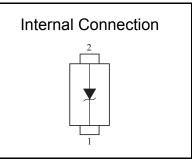
3. \*1 The temperature must be controlled 25 °C for VZ mesurement.

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

\*2 VZ guaranted 20 ms after current flow Rank classification

|  | Code           | M<br>M   |    |       | 0       |    |    |  |
|--|----------------|----------|----|-------|---------|----|----|--|
|  | Rank           |          |    |       | No-rank |    |    |  |
|  | VZ             | 35.10    | to | 36.90 | 34.20   | to | 37 |  |
|  | Marking symbol | ymbol JR |    |       | JG      |    |    |  |





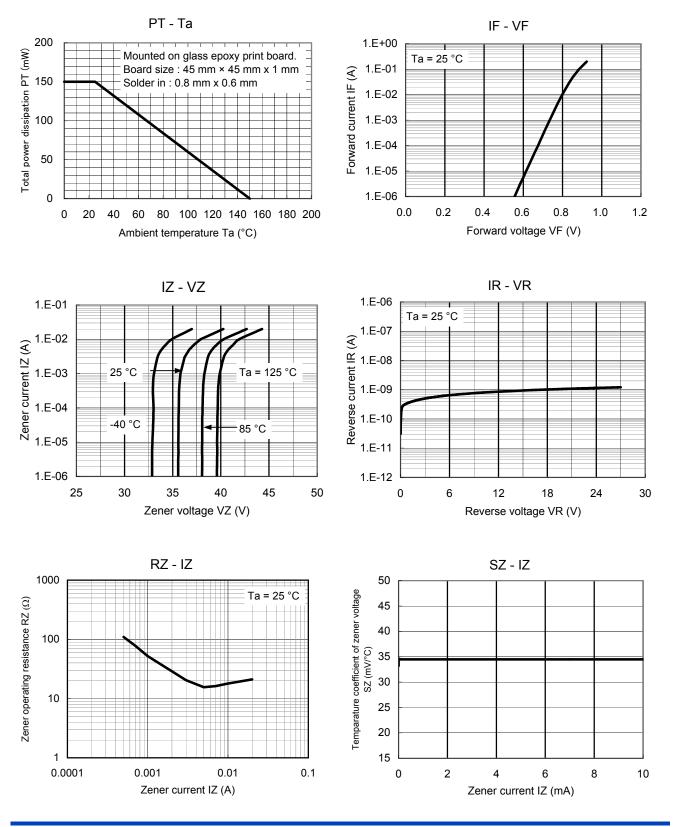
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## Technical Data (reference)



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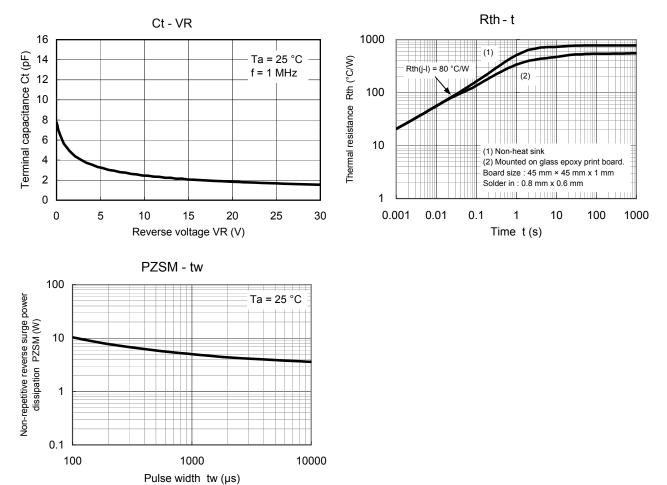
Established : 2009-11-12 Revised : 2013-08-01



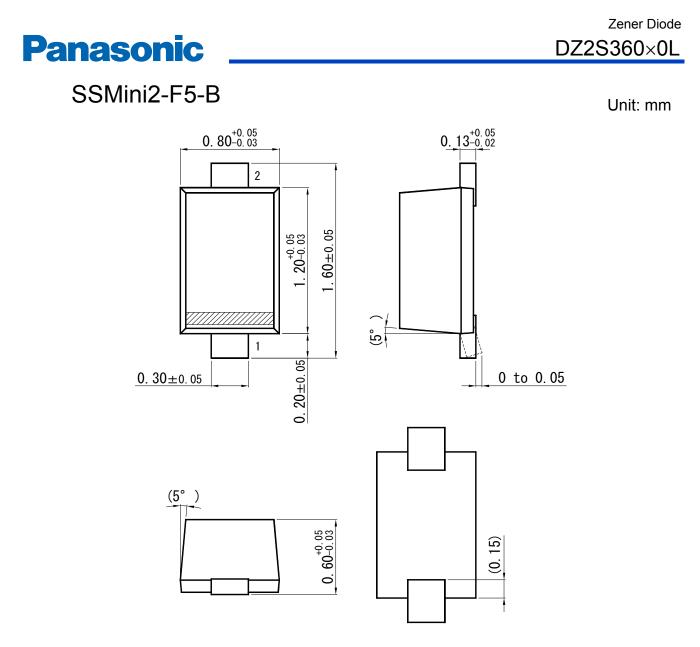
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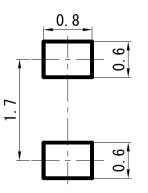




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Land Pattern (Reference) (Unit: mm)



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