# DZ2J068×0L

## Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

### ■ 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: GJ or GU

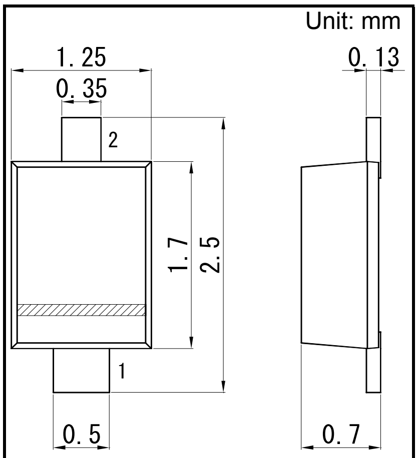
### ■ Packaging

Embossed type (Thermo-compression sealing) : 3 000 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 | 200 | mW |
| Electrostatic discharge [*2] | ESD | ±15 | kV |
| Junction temperature | Tj | 150 | °C |
| Operating ambient temperature | Topr | -40 to +85 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

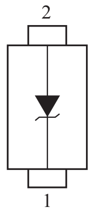
Note) *1 Mounted on glass epoxy print board ( 45 mm × 45 mm × 1 mm )
Solder in ( Recommended land pattern )
*2 Test method : IEC61000_4_2
( C = 150 pF, R = 330 Ω, Contact discharge : 10 times )



1. Cathode
2. Anode

| Panasonic | SMini2-F5-B |
|---|---|
| JEITA | SC-90A |
| Code | — |

### 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 | 6.46 | | 7.14 | V |
| Zener operating resistance | RZ | IZ = 5 mA | | | 20 | Ω |
| Zener rise operating resistance | RZK | IZ = 0.5 mA | | | 60 | Ω |
| Reverse current | IR | VR = 4 V | | | 0.1 | μA |
| Temperature coefficient of zener voltage [*3] | SZ | IZ = 5 mA | | 3.2 | | 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

Rank classification

| Code | M | 0 |
|---|---|---|
| Rank | M | No-rank |
| VZ | 6.64 to 6.98 | 6.46 to 7.14 |
| Marking symbol | GU | GJ |