

## DZ2J100×0L

## Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

### ■ Features

- Excellent rising characteristics of zener current  $I_Z$
- Low zener operating resistance  $R_Z$
- Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

### ■ Marking Symbol: NJ or NU

### ■ Packaging

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

### ■ Absolute Maximum Ratings $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation <sup>*1</sup>	PT	200	mW
Electrostatic discharge <sup>*2</sup>	ESD	±8	kV
Junction temperature	T <sub>j</sub>	150	°C
Operating ambient temperature	T <sub>opr</sub>	-40 to +85	°C
Storage temperature	T <sub>stg</sub>	-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 )

### ■ Electrical Characteristics $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 10 mA			1.0	V
Zener voltage <sup>*1, *2</sup>	V <sub>Z</sub>	I <sub>Z</sub> = 5 mA	9.50		10.50	V
Zener operating resistance	R <sub>Z</sub>	I <sub>Z</sub> = 5 mA			30	Ω
Zener rise operating resistance	R <sub>ZK</sub>	I <sub>Z</sub> = 0.5 mA			60	Ω
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 7 V			0.05	μA
Temperature coefficient of zener voltage <sup>*3</sup>	SZ	I <sub>Z</sub> = 5 mA		7.2		mV/°C

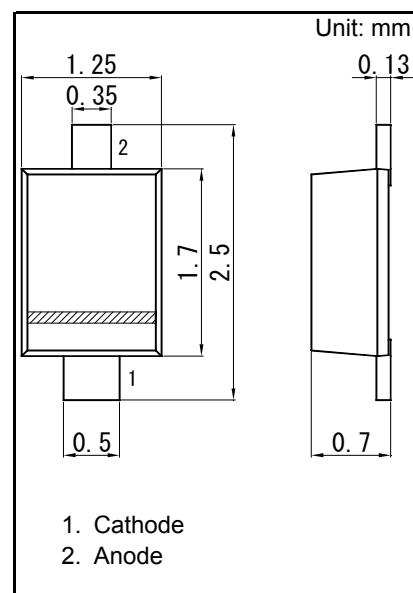
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

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

3. \*1 The temperature must be controlled 25 °C for V<sub>Z</sub> measurement.V<sub>Z</sub> value measured at other temperature must be adjusted to V<sub>Z</sub> (25 °C).\*2 V<sub>Z</sub> guaranteed 20 ms after current flow\*3 T<sub>j</sub> = 25 °C to 150 °C

#### Rank classification

Code	M	0
Rank	M	No-rank
V <sub>Z</sub>	9.75 to 10.25	9.50 to 10.50
Marking symbol	NU	NJ



1. Cathode  
2. Anode

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

