Zener Diode

### DZ4J110K0R

# **Panasonic**

### DZ4J110K0R

### 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:PJ
- Basic Part Number : Dual DZ2J110 (Parallel)

### ■ Packaging

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

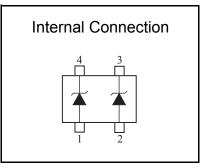
### ■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation *1	PT	200	mW
Electrostatic discharge *2	ESD	±8	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 ( 0.8 mm x 0.8 mm)

# Unit: mm 2. 0 0. 3 0. 13 4 1. Anode-1 2. Anode-2 2. Anode-2 4. Cathode-1

Panasonic SMini4-F3-B
JEITA SC-113BB
Code —



### ■ Electrical Characteristics Ta = 25 °C ± 3 °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 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.
  - \*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

<sup>\*2:</sup> Test method:IEC61000\_4\_2(C = 150 pF,R = 330  $\Omega$ , Contact discharge:10 times)

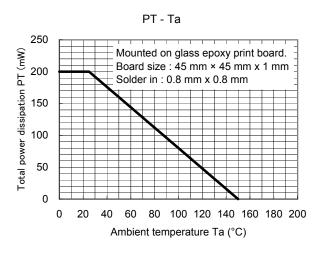
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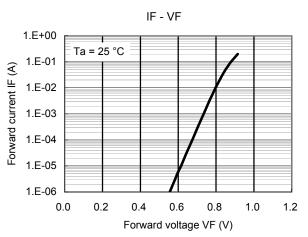
Revision. 3

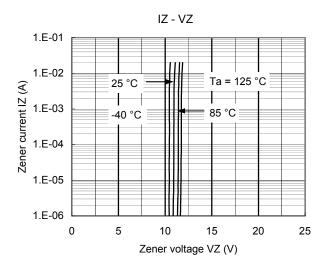
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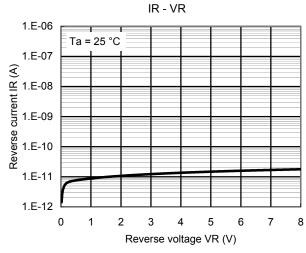
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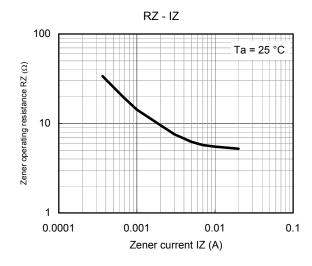
### Technical Data (reference)

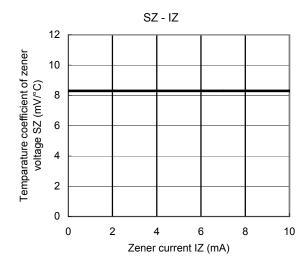












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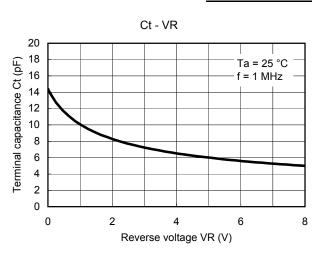
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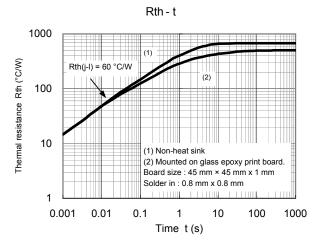
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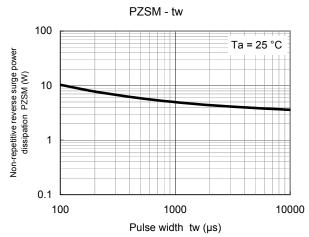
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# Technical Data (reference)







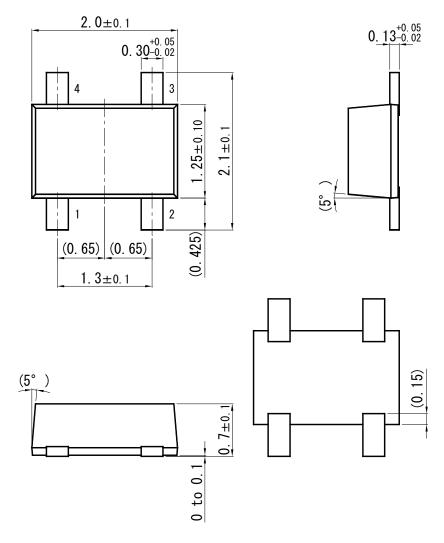
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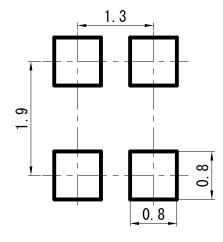
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SMini4-F3-B

Unit: mm



### ■ Land Pattern (Reference) (Unit: mm)



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