Zener Diode

DZ2J140×0L

## **Panasonic**

#### DZ2J140×0L

#### 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: TJ or TU

#### ■ Packaging

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

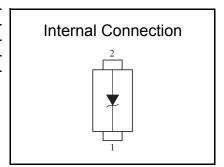
■ Absolute Maximum Ratings Ta = 25 °C

Symbol	Rating	Unit
IFRM	200	mA
PT	200	mW
ESD	±8	kV
Tj	150	°C
Topr	-40 to +85	°C
Tstg	-55 to +150	°C
	IFRM PT ESD Tj Topr	IFRM         200           PT         200           ESD         ±8           Tj         150           Topr         -40 to +85

Note) \*1 Mounted on glass epoxy print board (  $45 \text{ mm} \times 45 \text{ mm} \times 1 \text{ mm}$  ) Solder in ( Recommended land pattern )

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

### 



#### ■ 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	13.30		14.70	V
Zener operating resistance	RZ	IZ = 5 mA			40	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			80	Ω
Reverse current	IR	VR = 10 V			0.05	μΑ
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		11.6		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	13.65	to 14.35	13.30	to 14.70		
Marking symbol	TU		TJ			

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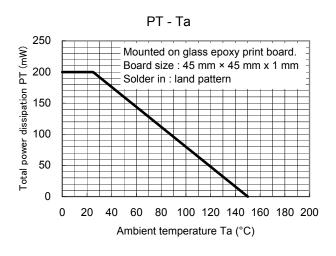
Established: 2009-10-14 Revised: 2013-07-12

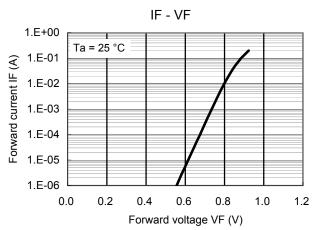
Zener Diode

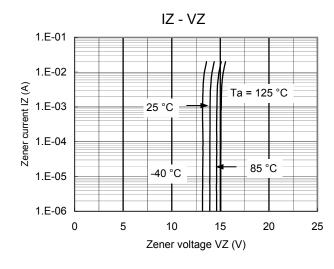
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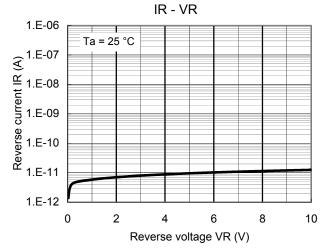
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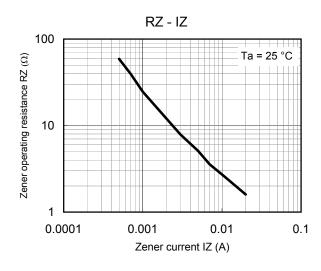
### Technical Data (reference)

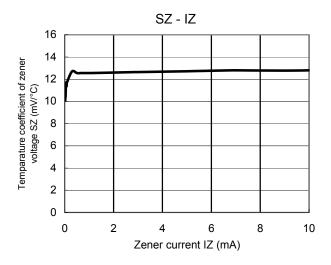












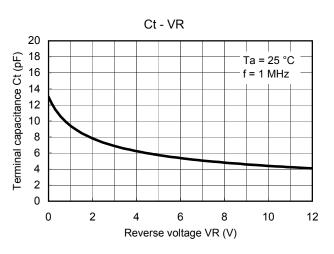
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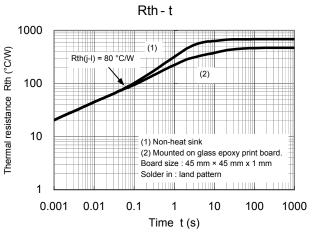
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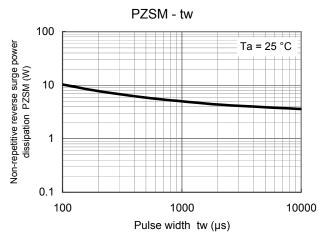
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### Technical Data (reference)







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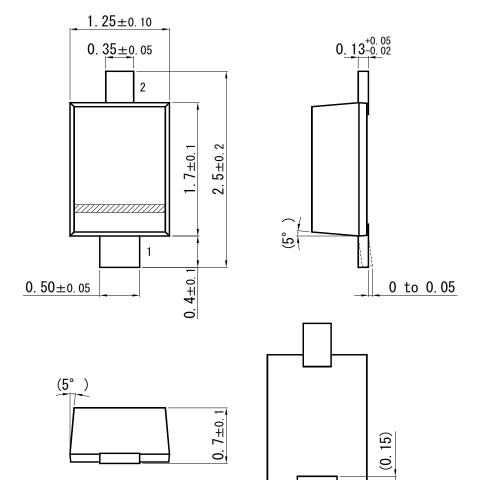
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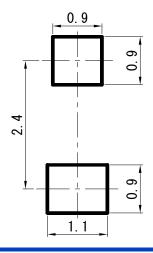
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## SMini2-F5-B

Unit: mm



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



Established: 2009-10-14 Revised: 2013-07-12

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