# **Panasonic**

Zener Diode DZ2J110×0L

## DZ2J110×0L 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: PJ or PU

#### Packaging

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

Absolute Maximum Ratings Ta = 25 °C Parameter Symbol

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

Note) \*1 Mounted on glass epoxy print board (  $45~mm \times 45~mm \times 1~mm$  ) 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 <sup>*1, *2</sup>	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.

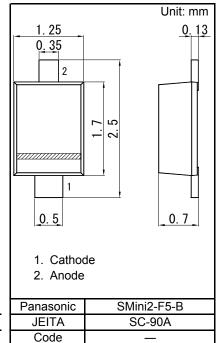
3. \*1 The temperature must be controlled 25 °C for VZ mesurement.

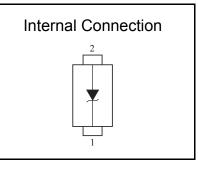
VZ value measured at other temperature must be adjusted to VZ (25 °C).

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

\*3 Tj = 25 °C to 150 °C

K Classification					
Code		М	0		
Rank		М	No-rank		
VZ	10.73	to 11.28	10.45	to 11.55	
Marking symbol	PU		PJ		

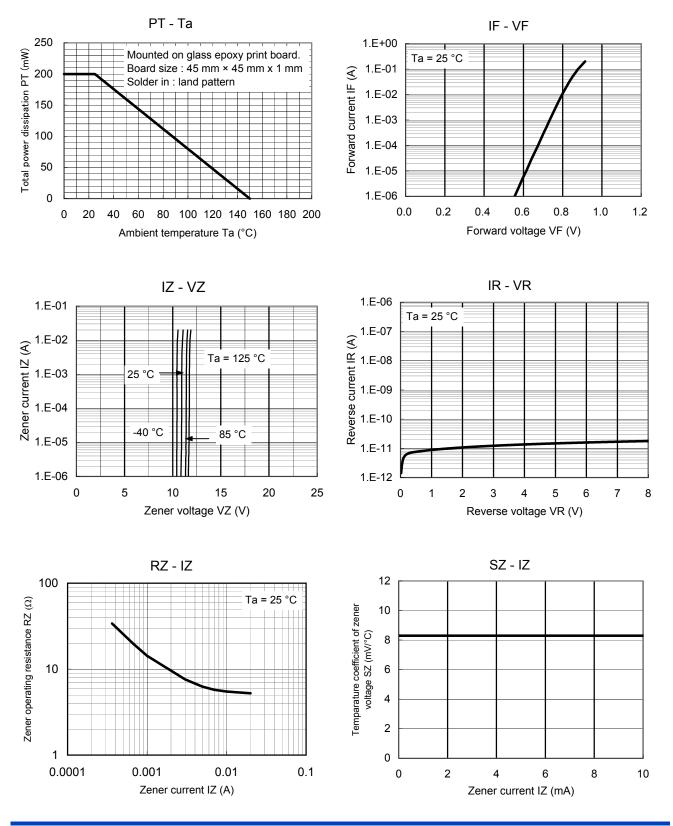






Zener Diode DZ2J110×0L

### Technical Data (reference)



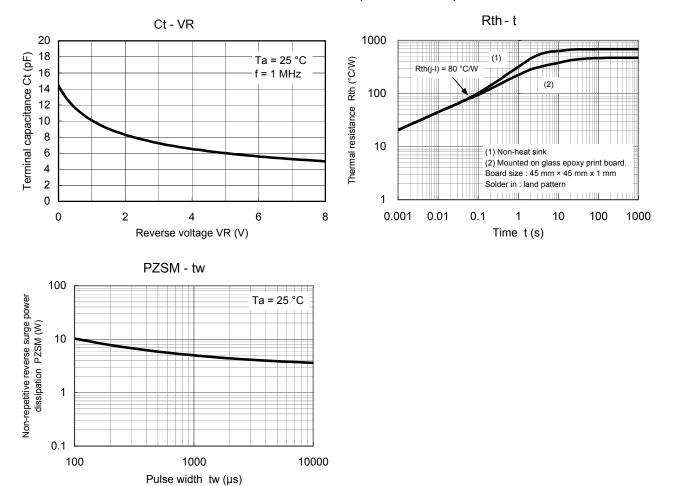
Established : 2009-10-14 Revised : 2013-07-11

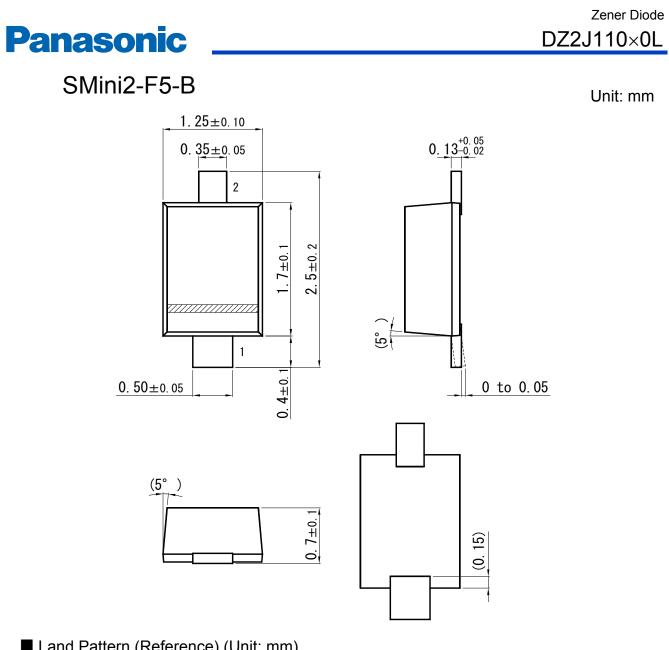




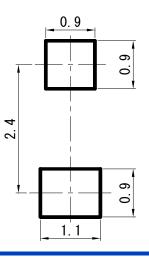
 $\begin{array}{c} {\sf Zener\ Diode} \\ DZ2J110{\times}0L \end{array}$ 

Technical Data (reference)





Land Pattern (Reference) (Unit: mm)



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