# Panasonic

Zener Diode

DZ2J02400L 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: 1J

#### Packaging

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

	Absolute Maximum Ratings Ta = 25 °C							
	Parameter	Symbol	Rating					
-	Repetitive peak forward current	IFRM	200					
	Total power dissipation <sup>*1</sup>	PT	200					
	Electrostatic discharge *2	ESD	±15					

Junction temperatureTj150°COperating ambient temperatureTopr-40 to +85°CStorage temperatureTstg-55 to +150°CNote) \*1Mounted 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  $\Omega$ , Contact discharge : 10 times )



Electrical Characteristics Ta = 25 °C ± 5 °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	2.28		2.52	V		
Zener operating resistance	RZ	IZ = 5 mA			100	Ω		
Reverse current	IR	VR = 1.0 V			120	μA		
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		-1.7		mV/°C		

Unit

mA mW kV

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

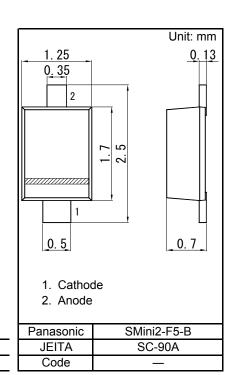
2. Absolute frequency of input and output is 5 MHz.

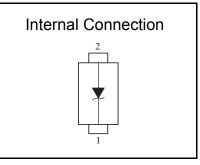
3. \*1 The temperature must be controlled 25 °C for VZ mesurement.

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

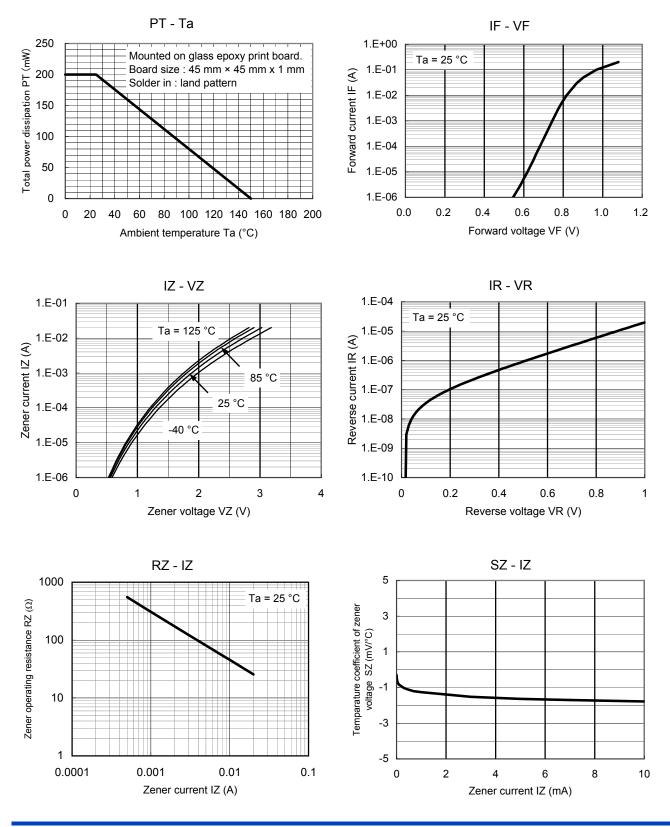




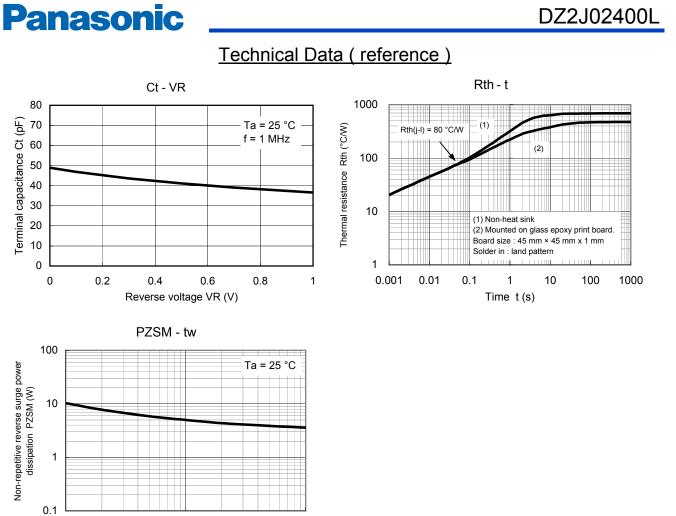


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### Technical Data (reference)



Established : 2009-10-14 Revised : 2013-07-01



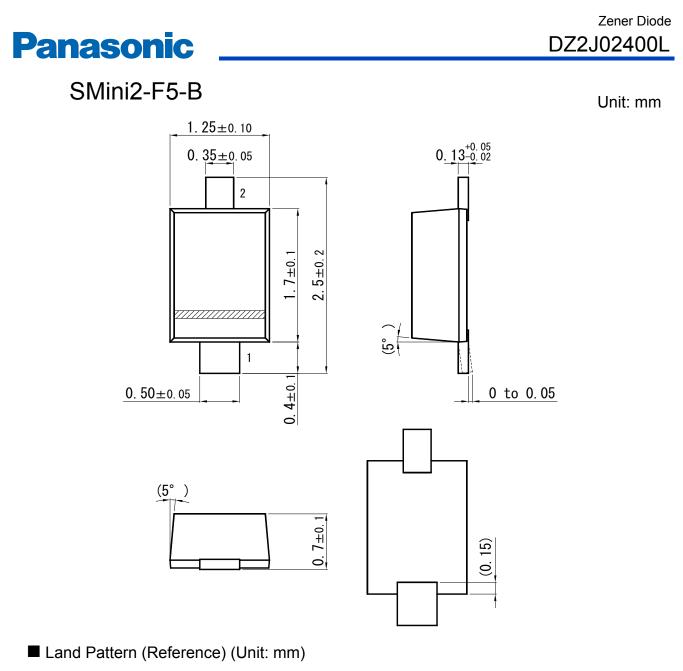
10000

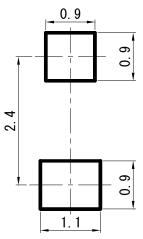
## Zener Diode DZ2J02400L

100

1000

Pulse width tw (µs)





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