Panasonic

Zener Diode DZ2J100×0L

DZ2J100×0L 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: NJ or NU

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	
	Storago tomporaturo	Teta	55 to ±150	ŝ	

Storage temperature Tstg -55 to +150 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 Ω, Contact discharge : 10 times)

Electrical Characteristics $Ta = 25 \circ C + 3 \circ C$

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	9.50		10.50	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 = 7 V			0.05	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 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.

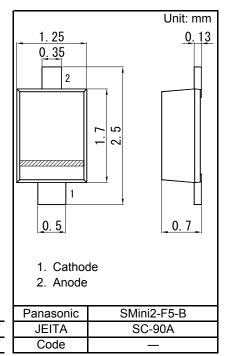
3. *1 The temperature must be controlled 25 °C for VZ mesurement.

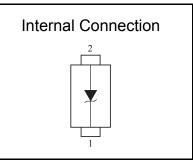
VZ value measured at other temperature must be adjusted to VZ (25 °C).

Rank classification *2 VZ guaranted 20 ms after current flow

*3	Tj = 25	5 °C to 1	50 °C
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K classification					
Code	M 0		0		
Rank	М		No-rank		
VZ	9.75	to 10.25	9.50	to 10.50	
Marking symbol		NU		NJ	

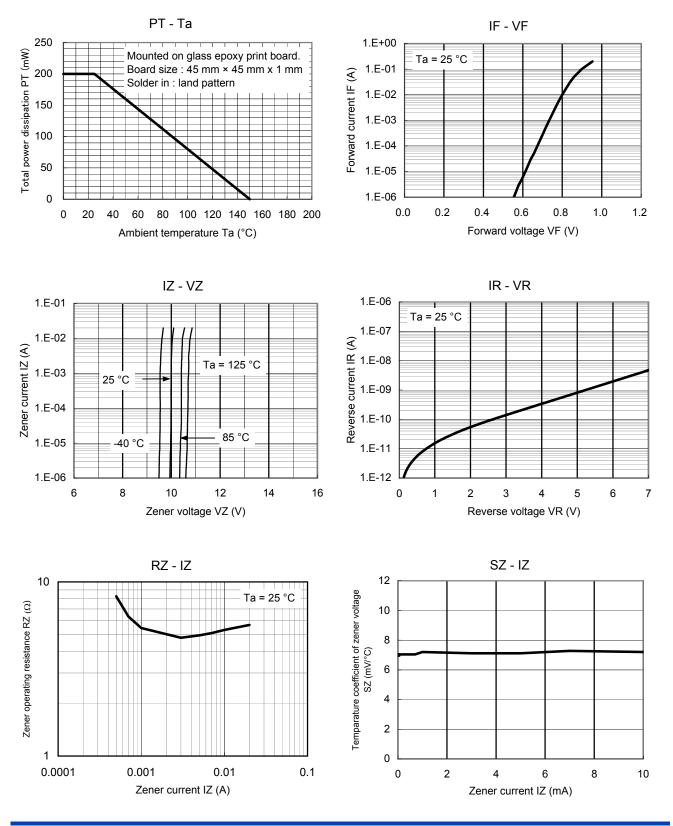






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Technical Data (reference)



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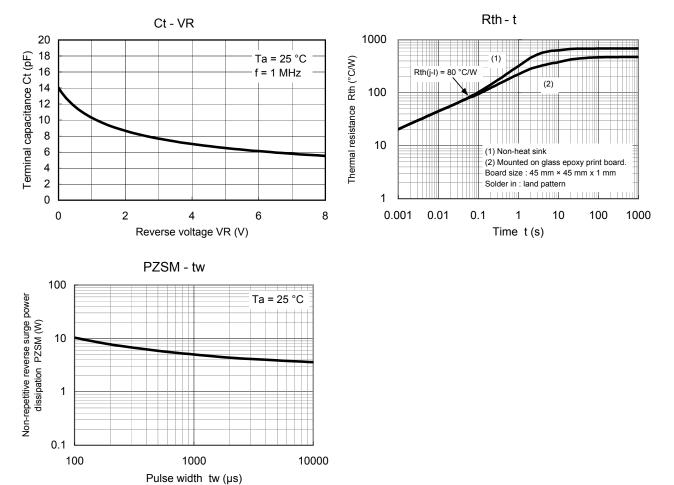
Established : 2009-10-14 Revised : 2013-07-11



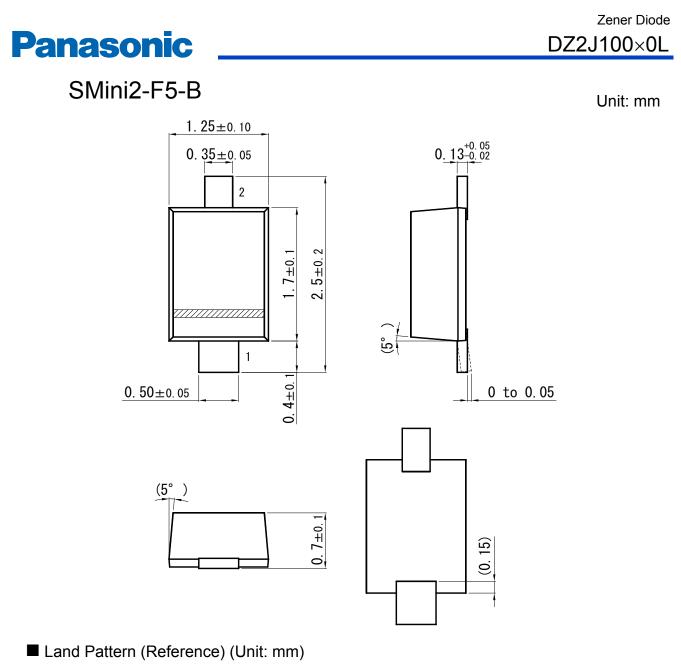


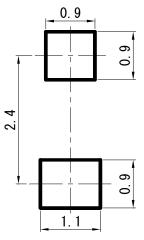
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