Zener Diode

DZ2J100×0L

Panasonic

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

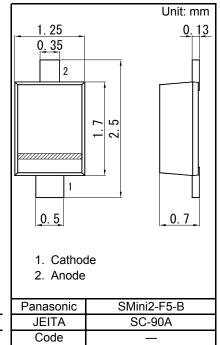
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

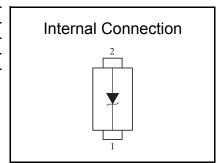
■ Absolute Maximum Ratings Ta = 25 °C

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 Ω , 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	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	μΑ
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).
 - *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	9.75 to 10.25	9.50 to 10.50					
Marking symbol	NU	NJ					

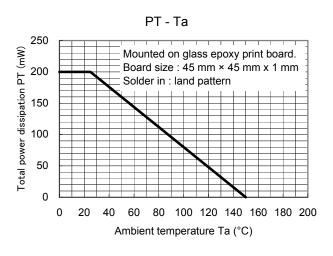
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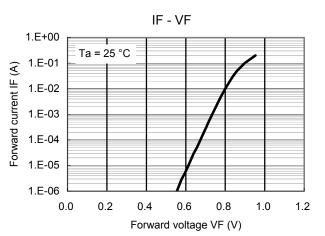
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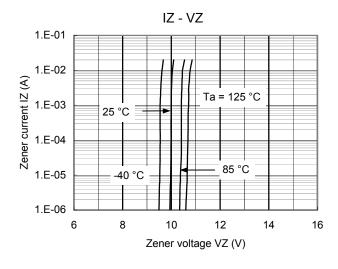
Zener Diode

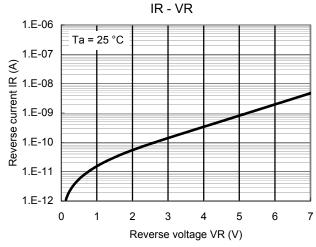
DZ2J100×0L

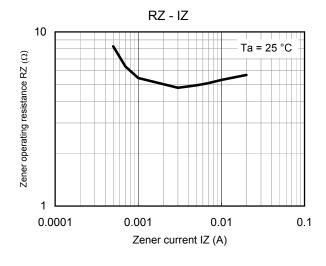
Technical Data (reference)

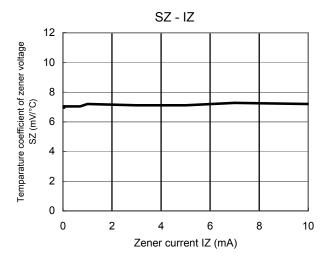










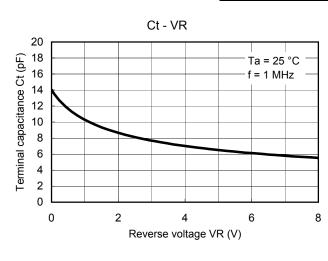


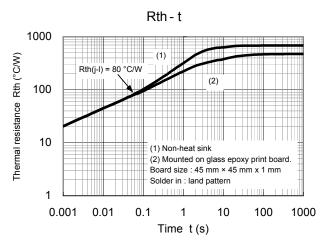
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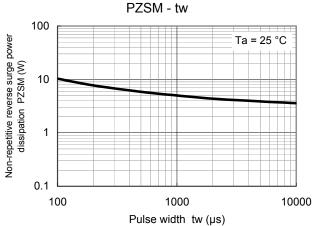
Zener Diode

DZ2J100×0L

Technical Data (reference)







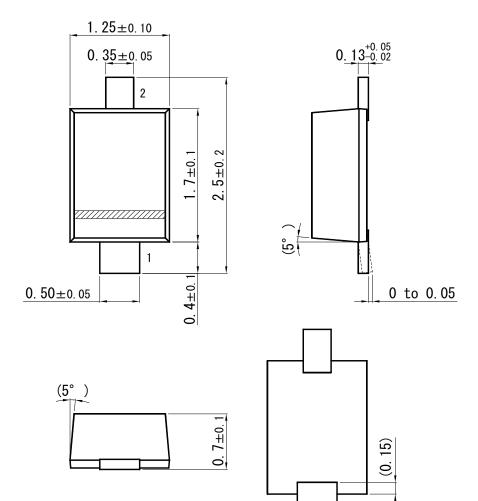
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Zener Diode

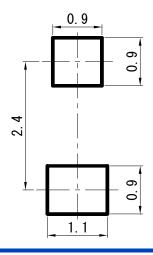
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SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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