

DZ5J100D0R

# Zener Diode

Unit: mm

0.13

## Silicon epitaxial planar type For surge absorption circuit DZ5X100D in SMini5 type package Features Excellent rising characteristics of zener current Iz Low zener operating resistance Rz Halogen-free / RoHS compliant

- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol:04
- Basic Part Number : Dual DZ3X100D (Common anode)
- Packaging

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

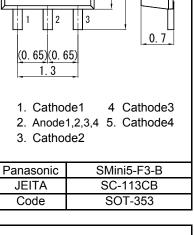
■ Absolute Maximum Ratings Ta = 25 °C

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Parameter	Symbol	Rating	Unit
Total power dissipation <sup>*1</sup>	PT	200	mW
Electrostatic discharge <sup>*2</sup>	ESD	±10	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstq	-55 to +150	°C

Note) \*1: PT = 200 mW achieved with a printed circuit board.

(4Diode total)

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

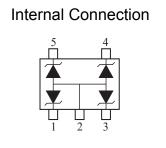


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#### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

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		6.5		mV/°C	

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

2. \*1: The temperature must be controlled 25°C for VZ mesurement.

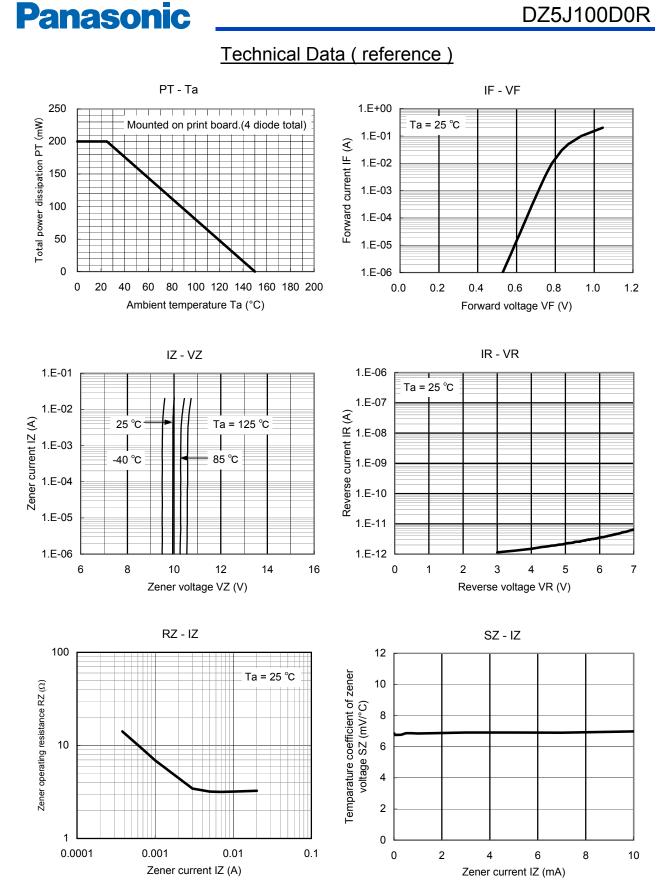
VZ value measured at other temperature must be adjusted to VZ (25°C)

\*2: VZ guaranted 20 ms after current flow.

\*3: Tj = 25°C to 150°C



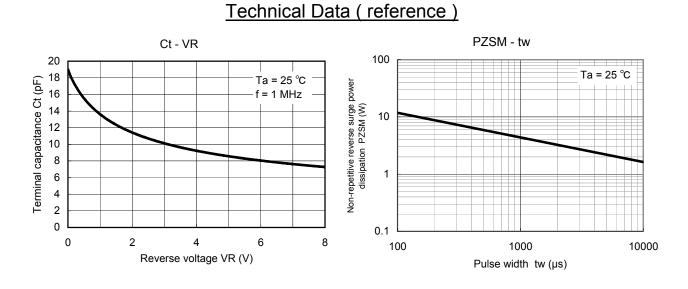
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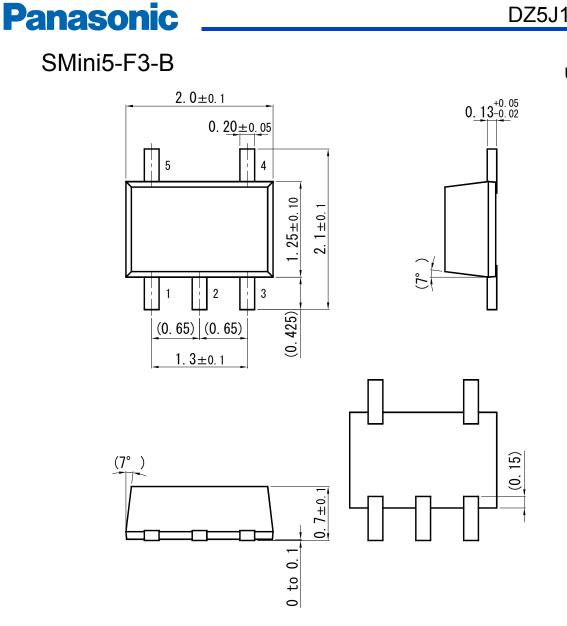


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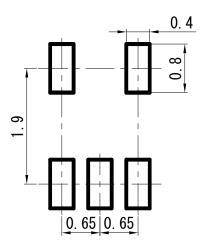


Zener Diode





Land Pattern (Reference) (Unit: mm)



Unit: mm

Zener Diode

DZ5J100D0R

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