Zener Diode

Panasonic DZ4J300K0R

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: GG
- Basic Part Number : Dual DZ2J300 (Parallel)

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	С°	
Storage temperature	Tstg	-55 to +150	С°	

Note) *1: Mounted on glass epoxy print board. (45 mm x 45 mm x 1 mm) Solder in (0.8 mm x 0.8 mm)

*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 = 2 mA	28.50		31.50	V	
Zener operating resistance	RZ	IZ = 2 mA			160	Ω	
Zener rise operating resistance	RZK	IZ = 0.5 mA			160	Ω	
Reverse current	IR	VR = 23 V			0.05	μA	
Temperature coefficient of zener voltage *3	SZ	IZ = 2 mA		28.7		mV/°C	

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

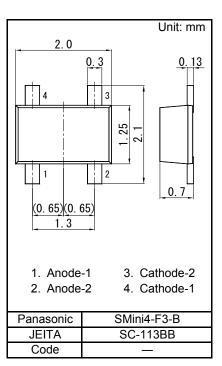
2. Absolute frequency of input and output is 5 MHz.

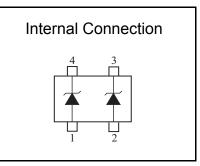
3. *1: The temperature must be controlled 25 °C for VZ mesurement.

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



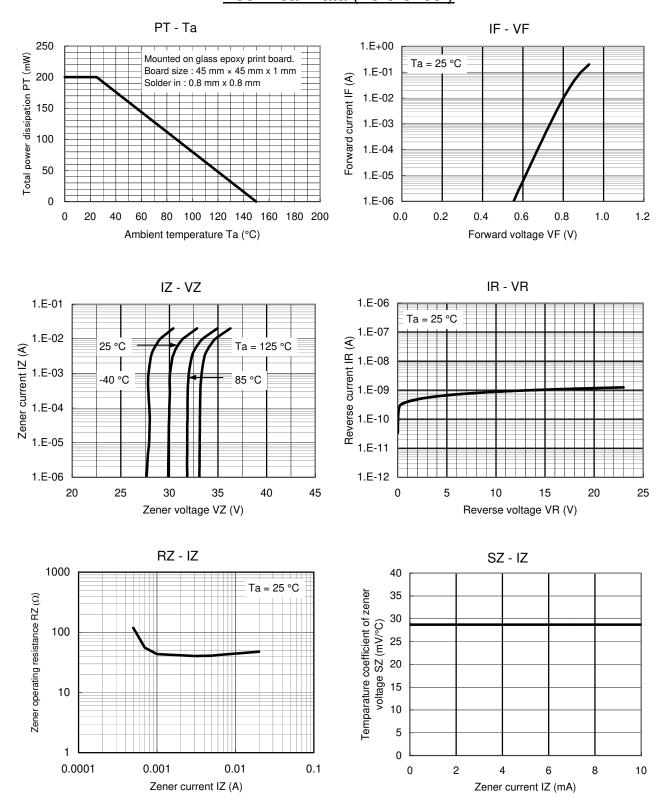


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Technical Data (reference)



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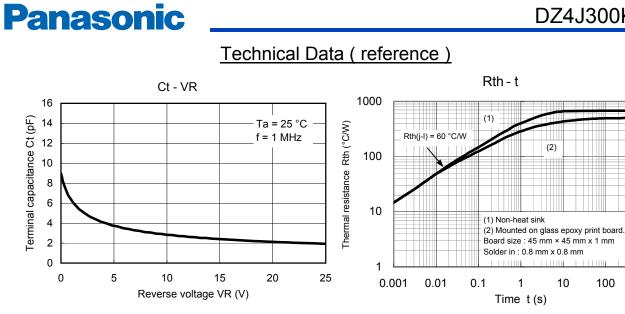
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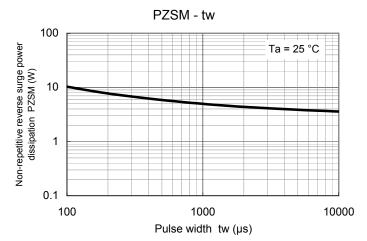
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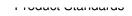
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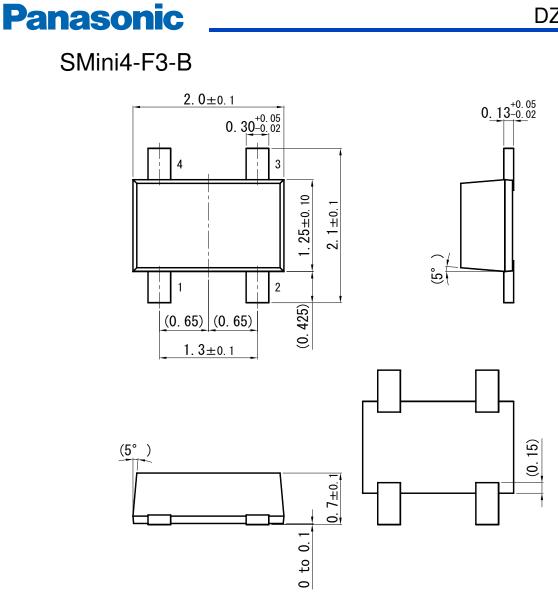
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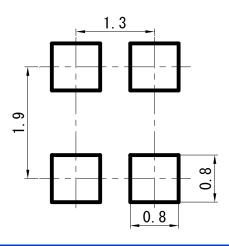


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Unit: mm



Land Pattern (Reference) (Unit: mm)



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