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Doc No. TT4-EA-12036

Revision. 3

Zener Diode

DZ4J220K0R

Panasonic

DZ4J220K0R

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: CG
- Basic Part Number : Dual DZ2J220 (Parallel)

■ Packaging

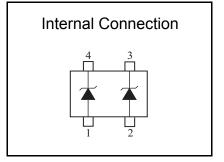
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ 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	°C				
Storage temperature	Tstg	-55 to +150	°C				

- 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)

Unit: mm 2. 0 0. 3 0. 13 4 1. Anode-1 2. Anode-2 2. Anode-2 4. Cathode-1 Panasonic SMini4-F3-B JEITA SC-113BB Code -



■ 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	20.90		23.10	V
Zener operating resistance	RZ	IZ = 5 mA			80	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			100	Ω
Reverse current	IR	VR = 17 V			0.05	μΑ
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		22.2		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 $^{\circ}$ C for VZ mesurement. VZ value measured at other temperature must be adjusted to VZ (25 $^{\circ}$ C)
 - *2: VZ guaranted 20 ms after current flow.
 - *3: Tj = 25 °C to 150 °C

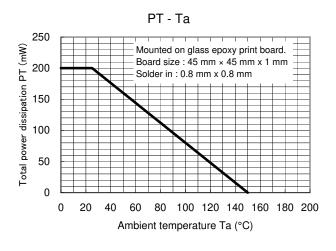
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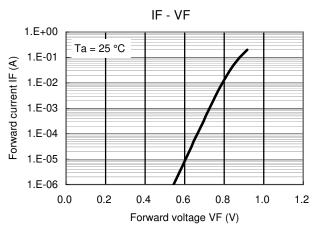
Zener Diode

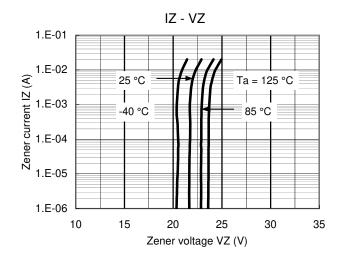
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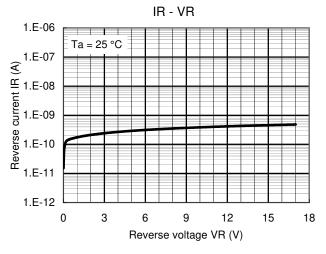
Panasonic

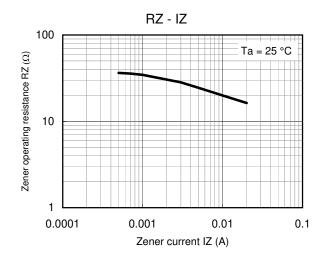
Technical Data (reference)

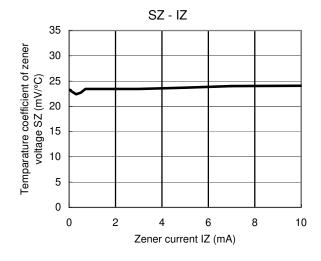












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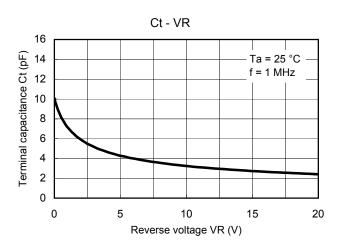
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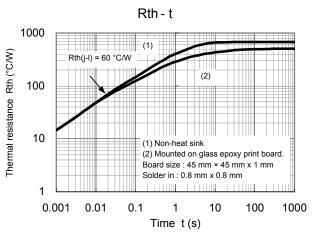
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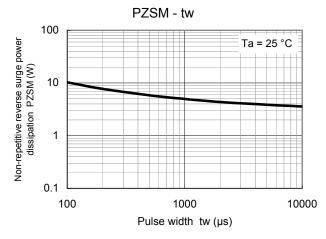
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Technical Data (reference)







Zener Diode

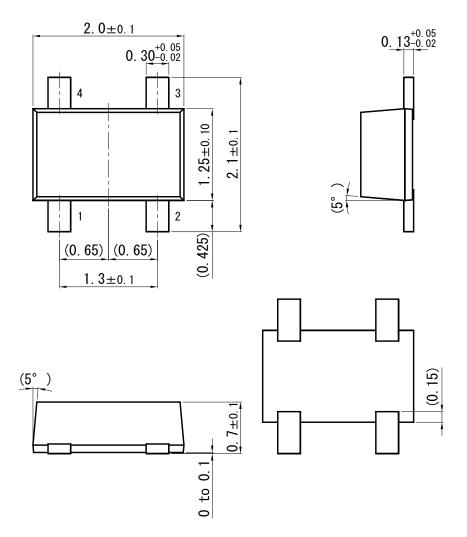
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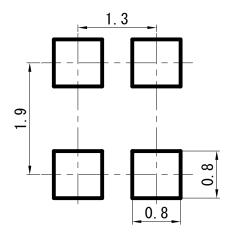
Panasonic

SMini4-F3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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