Zener Diode

DZ4J200K0R

Panasonic

DZ4J200K0R

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: ZJ
- Basic Part Number : Dual DZ2J200 (Parallel)

■ Packaging

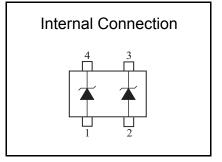
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ 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
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- 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 --



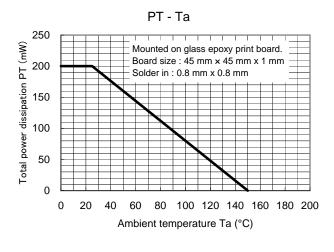
■ Electrical Characteristics Ta = 25 °C ± 3 °C

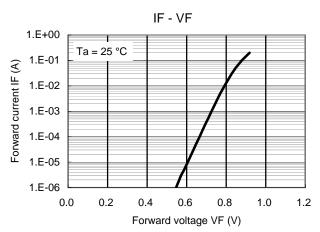
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage *1,*2	VZ	IZ = 5 mA	19.00		21.00	V
Zener operating resistance	RZ	IZ = 5 mA			80	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			100	Ω
Reverse current	IR	VR = 15 V			0.05	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		18.4		mV/°C

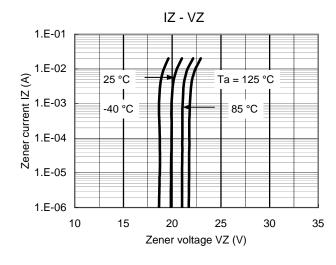
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.
 - 2. Absolute frequency of input and output is 5 MHz.
 - 3. *1: The temperature must be controlled 25 $^{\circ}$ C for VZ mesurement. VZ value measured at other temperature must be adjusted to VZ (25 $^{\circ}$ C)
 - *2: VZ guaranted 20 ms after current flow.
 - *3: Tj = 25 °C to 150 °C

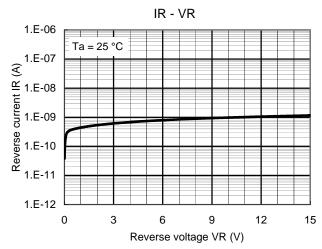
Established: 2009-12-21 Revised: 2013-10-07

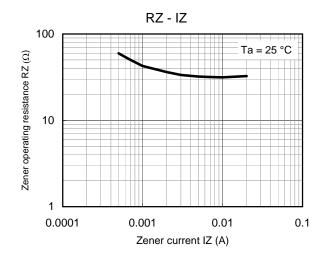
Technical Data (reference)

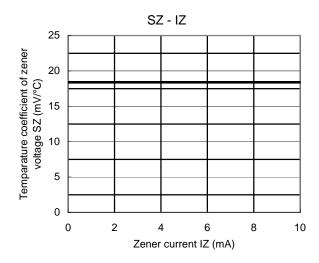








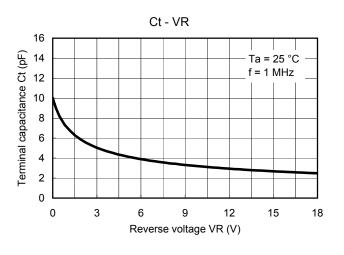


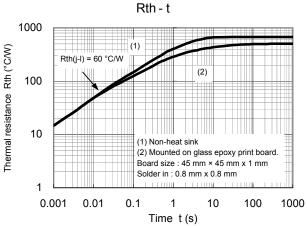


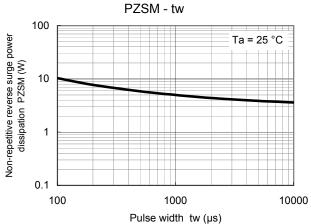
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Technical Data (reference)





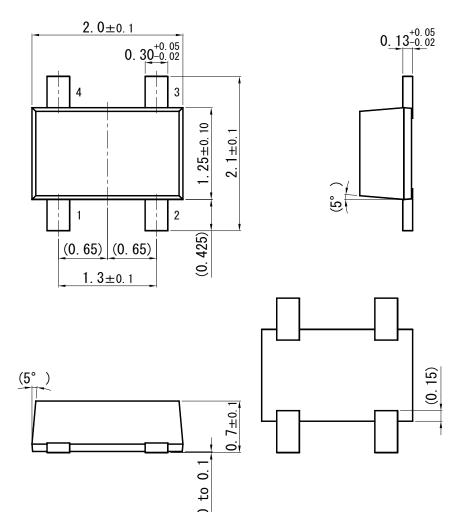


Established: 2009-12-21 Revised: 2013-10-07

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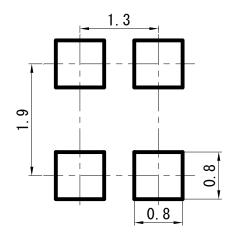
SMini4-F3-B





■ Land Pattern (Reference) (Unit: mm)

Established: 2009-12-21 Revised: 2013-10-07



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