Zener Diode

DZ4J033K0R

Panasonic

DZ4J033K0R

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:5J
- Basic Part Number : Dual DZ2J033 (Parallel)

Packaging

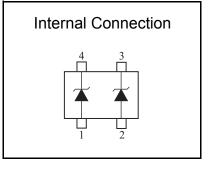
Embossed type (Thermo-compression sealing) 3 000 pcs / reel (standard)

■ 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	±15	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)

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	3.14		3.47	V
Zener operating resistance	RZ	IZ = 5 mA			130	Ω
Reverse current	IR	VR = 1 V			20	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		-2.1		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

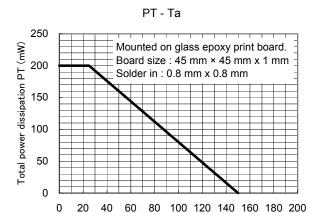
^{*2:} Test method:IEC61000_4_2(C = 150 pF,R = 330 Ω , Contact discharge:10 times)

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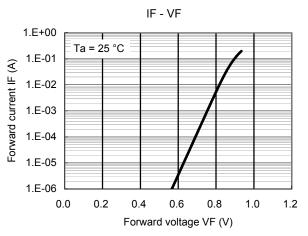
Zener Diode

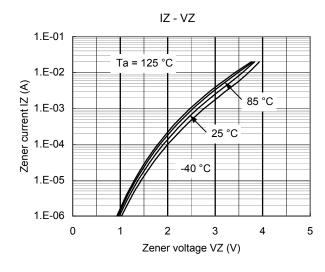
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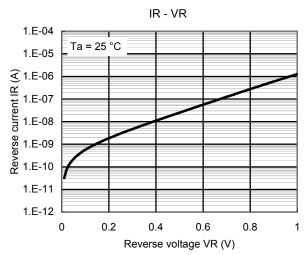
Technical Data (reference)

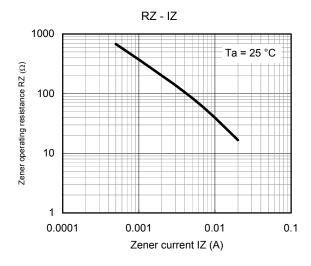


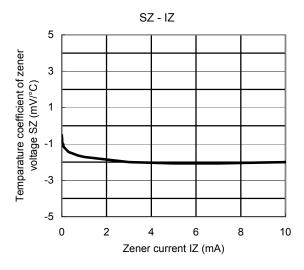
Ambient temperature Ta (°C)











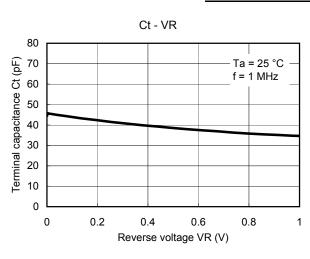
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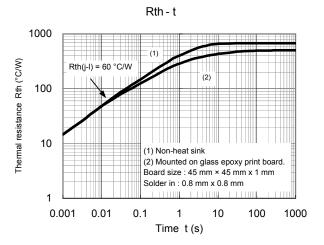
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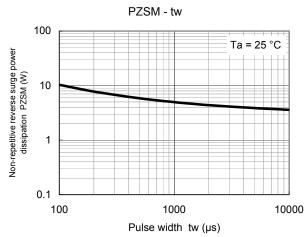
Zener Diode

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Technical Data (reference)







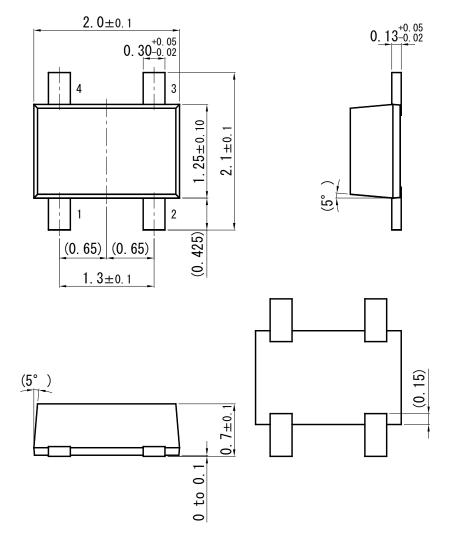
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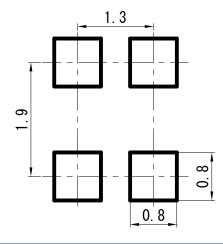
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SMini4-F3-B





■ Land Pattern (Reference) (Unit: mm)



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