Zener Diode

DZ3S082D0L

Panasonic

DZ3S082D0L

Silicon epitaxial planar type

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:03

■ Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Total power dissipation *1	PT	150	mW
Electrostatic discharge *2	ESD	±10	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) (2 Diode total)

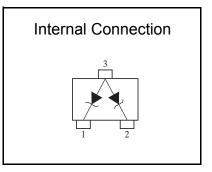
Solder in (0.6 mm x 0.6 mm)

*2: Test method:IEC61000 4 2(C = 150 pF,R = 330 Ω , Contact discharge:10 times)

Unit: mm 1. 6 0. 26 0. 13 2 (0. 5) (0. 5) 1. 0

- 1. Cathode1
- 2. Cathode2
- 3. Anode1,2

1	
Panasonic	SSMini3-F3-B
JEITA	SC-89
Code	SOT-490



■ 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	7.79		8.61	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 = 5 V			0.1	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		4.8		mV/°C

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

- *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

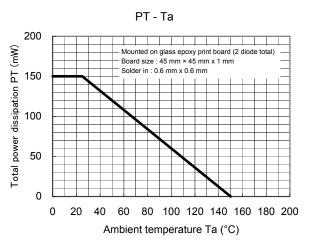
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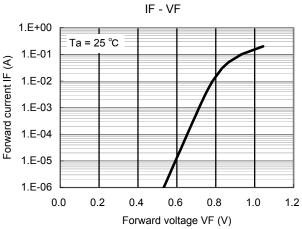
Zener Diode

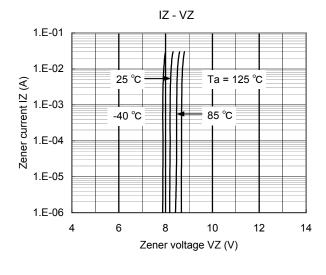
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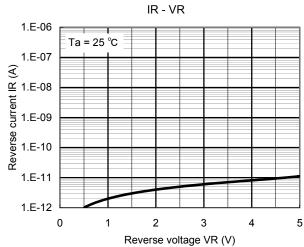
Panasonic

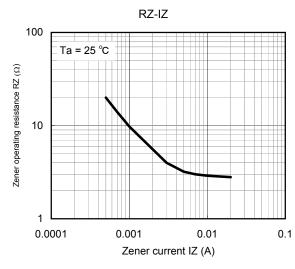
Technical Data (reference)

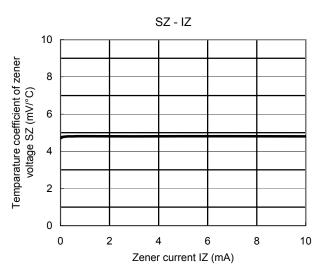












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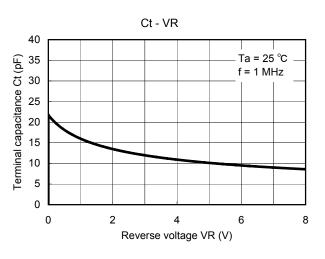
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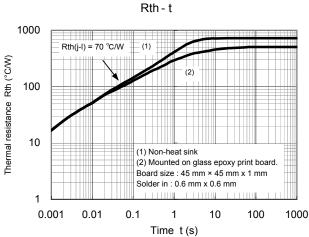
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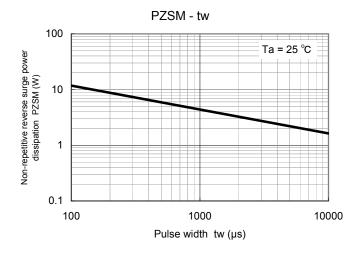
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Technical Data (reference)







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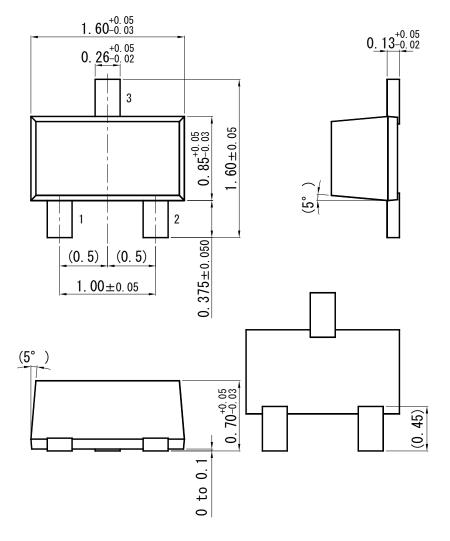
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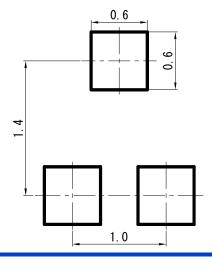
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Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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