Zener Diode

### DZ3X068D0L

# **Panasonic**

### DZ3X068D0L

### 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:02

### ■ 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	200	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

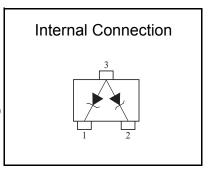
Note) \*1: Mounted on glass epoxy print board. ( 45 mm x 45 mm x 1 mm) (2 Diode total)

Solder in ( 1.0 mm x 1.0 mm)

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

# Unit: mm 2. 9 0. 4 0. 16 (0. 95) (0. 95) 1. 9 1. Cathode1 2. Cathode2 3. Anode1,2

Panasonic	sonic Mini3-G3-B		
JEITA	SC-59A		
Code	TO-236AA/SOT-23		



### ■ 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	6.46		7.14	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 = 4 V			0.1	μΑ
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		3.1		mV/°C

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

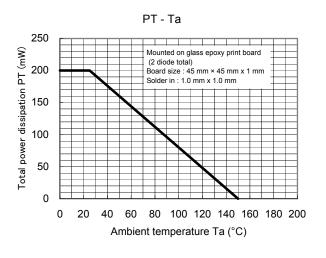
- \*1: The temperature must be controlled 25°C for VZ mesurement.
   VZ value measured at other temperature must be adjusted to VZ (25°C)
  - \*2: VZ guaranted 20 ms after current flow.
  - \*3: Tj = 25°C to 150°C

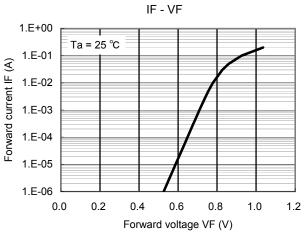
Established : 2010-05-17 Revised : 2013-10-28 **Panasonic** 

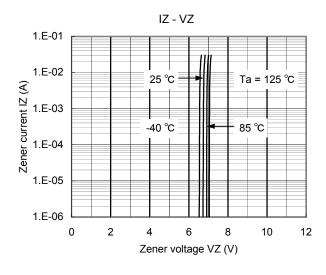
Zener Diode

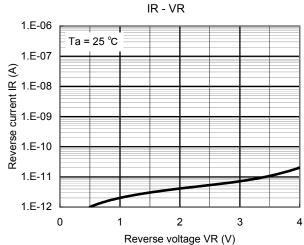
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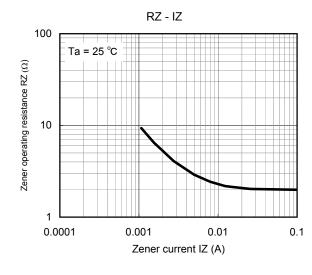
### Technical Data (reference)

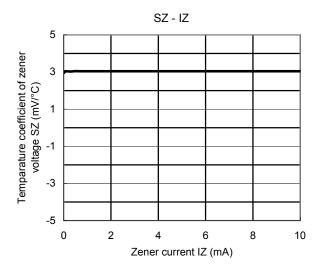












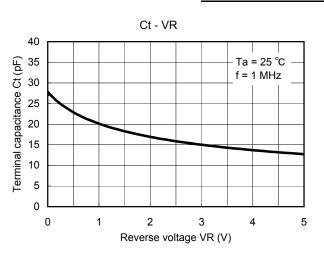
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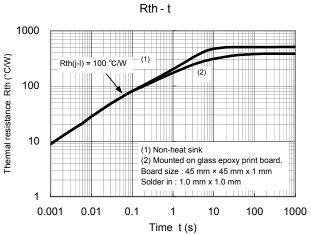
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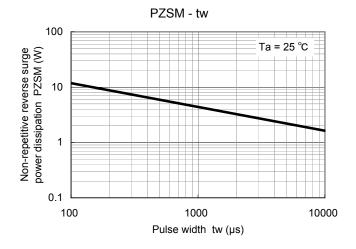
Zener Diode

### DZ3X068D0L

### Technical Data (reference)







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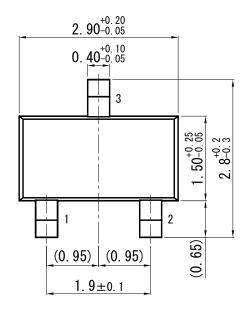
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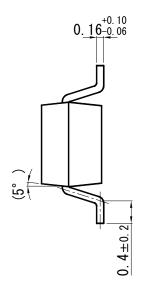
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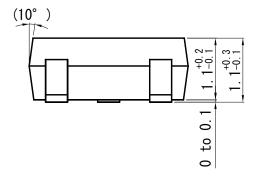
## Mini3-G3-B

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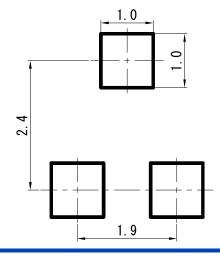








### ■ Land Pattern (Reference) (Unit: mm)



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