Zener Diode

### DZ37082D0L

# **Panasonic**

## DZ37082D0L

## Silicon epitaxial planar type

For surge absorption circuit DZ3S082D in SSSMini3 type package

#### ■ 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) 10 000 pcs / reel (standard)

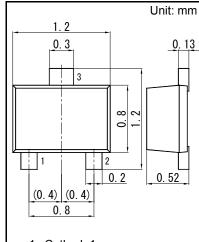
## ■ Absolute Maximum Ratings Ta = 25 °C

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)

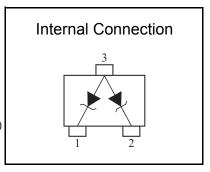
Solder in (Recommended land pattern)

\*2: Test method:IEC61000\_4\_2(C = 150 pF,R = 330  $\Omega$ , Contact discharge:10 times)



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

Panasonic	SSSMini3-F2-B
JEITA	SC-105AA
Code	SOT-723



#### ■ 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.

- 2. \*1: The temperature must be controlled 25°C for VZ mesurement. VZ value measured at other temperature must be adjusted to VZ (25°C)

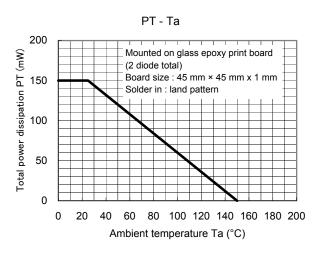
  - \*2: VZ guaranted 20 ms after current flow.
  - \*3: Tj = 25°C to 150°C

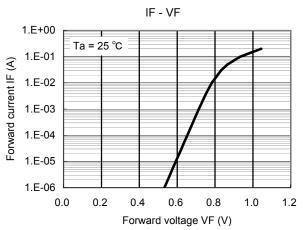
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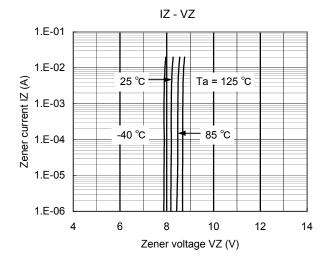
Zener Diode

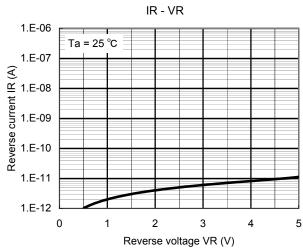
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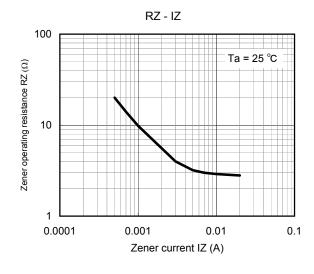
## Technical Data (reference)

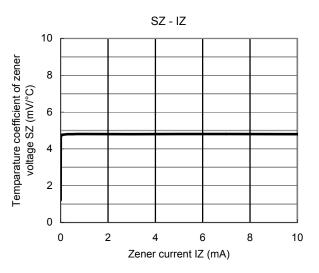










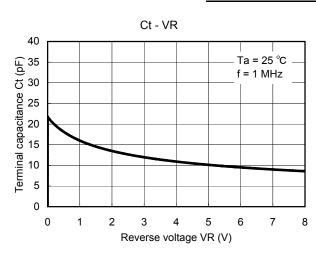


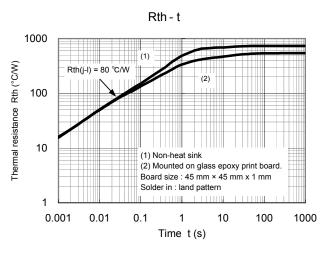
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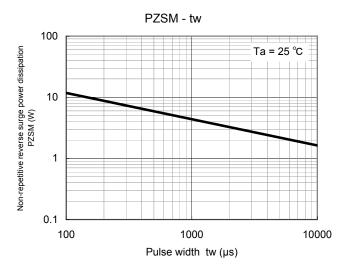
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## Technical Data (reference)







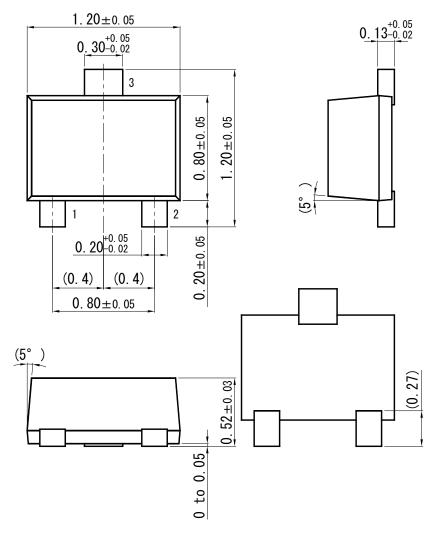
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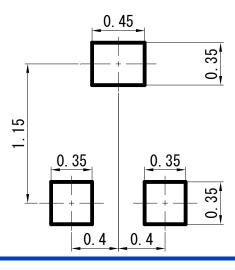
## SSSMini3-F2-B

**Panasonic** 

Unit: mm



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



Page 4 of 4

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