Zener Diode

#### **DZ3S100D0L**

# **Panasonic**

### DZ3S100D0L

#### 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: 04

#### ■ Packaging

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

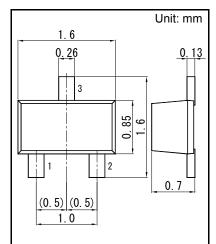
#### ■ Absolute Maximum Ratings Ta = 25 °C

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)

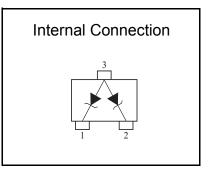
Solder in (0.6 mm x 0.6 mm)

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



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

Panasonic	SSMini3-F3-B	
JEITA	ITA 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	9.50		10.50	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 = 7 V			0.05	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		6.5		mV/°C

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

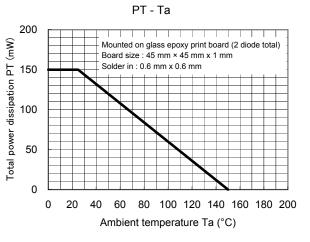
- \*1: The temperature must be controlled 25°C for VZ mesurement.
   VZ value measured at other temperature must be adjusted to VZ (25°C)
  - \*2: VZ guaranted 20 ms after current flow.
  - \*3: Tj = 25°C to 150°C

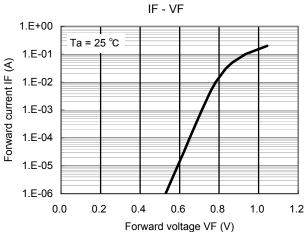
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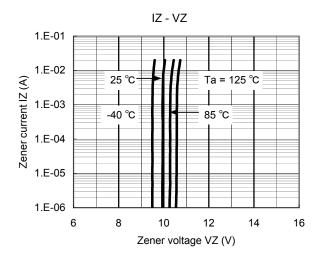
Zener Diode

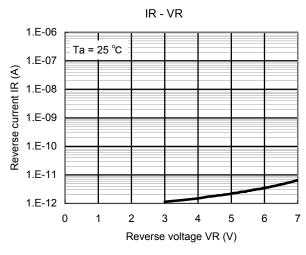
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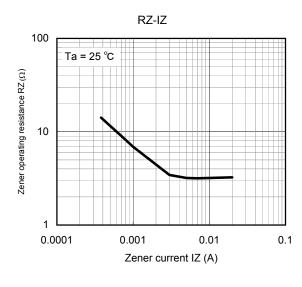
### Technical Data (reference)

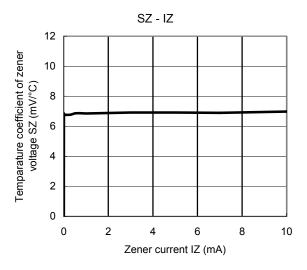












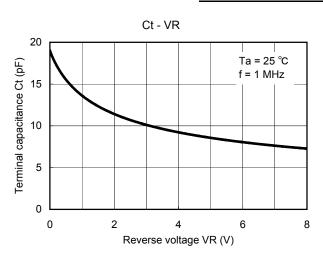
Revision. 3

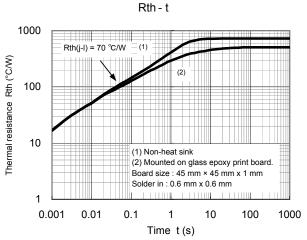
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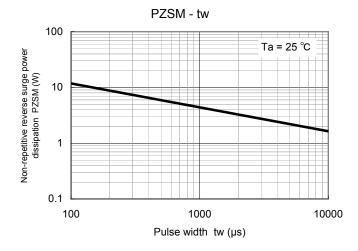
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## Technical Data (reference)







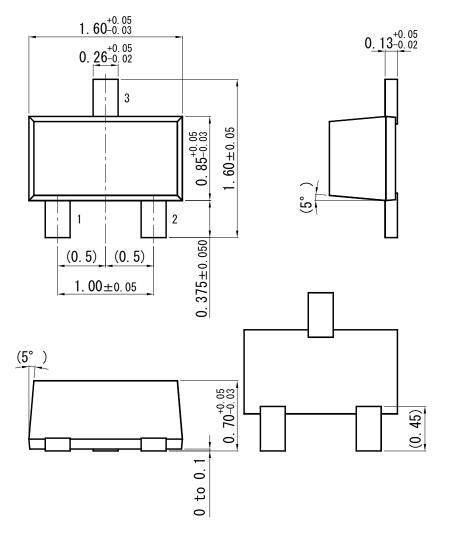
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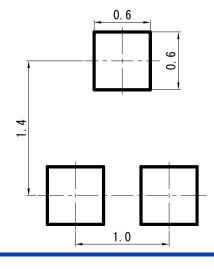
## SSMini3-F3-B

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Unit: mm



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



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