Revision. 3

Zener Diode

DZ2S051×0L

# **Panasonic**

# DZ2S051×0L

## Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ2J051 in SSMini2 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: CJ or CU

### ■ Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

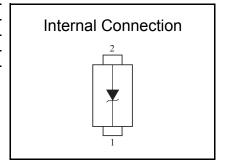
Symbol	Rating	Unit
IFRM	200	mA
PT	150	mW
ESD	±15	kV
Tj	150	°C
Topr	-40 to +85	°C
Tstg	-55 to +150	°C
	IFRM PT ESD Tj Topr	IFRM         200           PT         150           ESD         ±15           Tj         150           Topr         -40 to +85

Note) \*1 Mounted on glass epoxy print board (  $45 \text{ mm} \times 45 \text{ mm} \times 1 \text{ mm}$  ) Solder in (  $0.8 \text{ mm} \times 0.6 \text{ mm}$  )

\*2 Test method : IEC61000\_4\_2

( C = 150 pF, R = 330  $\Omega,$  Contact discharge : 10 times )

# Unit: mm 0.8 0.13 2 0.6 1. Cathode 2. Anode Panasonic SSMini2-F5-B JEITA SC-79 Code SOD-523



### ■ 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	4.85		5.36	V
Zener operating resistance	RZ	IZ = 5 mA			60	Ω
Zener rise operating resistance	RZK	IZ = 1 mA			500	Ω
Reverse current	IR	VR = 2 V			1.0	μΑ
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		0.7		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

Rank classification

Code	M M			0				
Rank				No-rank				
VZ	5.00	to	5.26	4.85	to	5.36		
Marking symbol	CU			CJ				

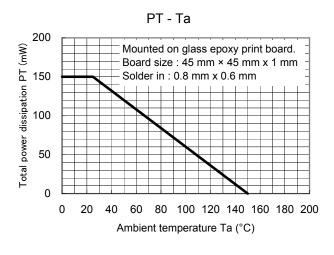
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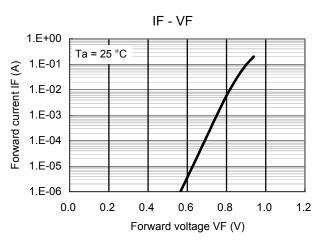
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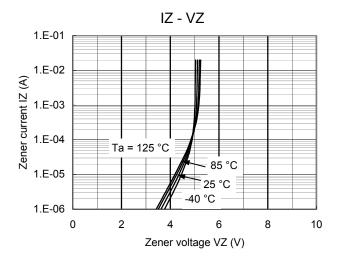
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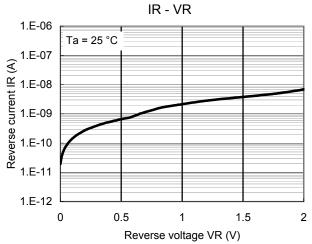
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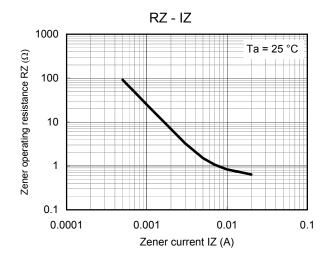
# Technical Data (reference)

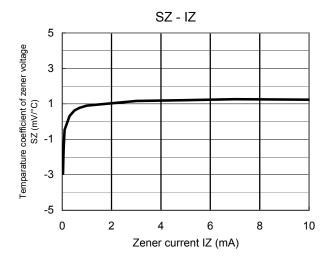










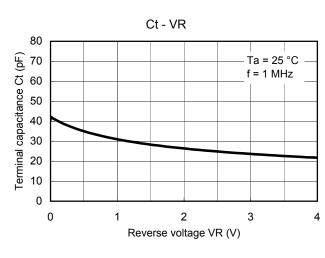


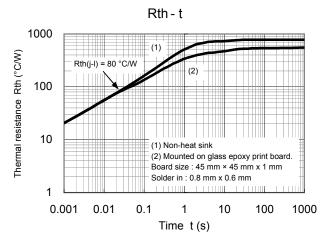
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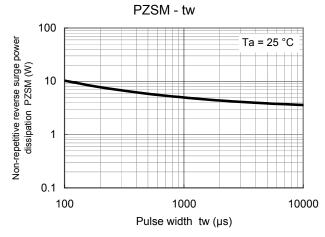
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# Technical Data (reference)







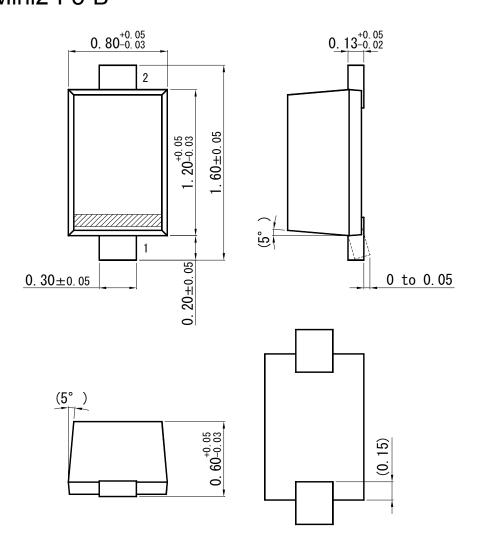
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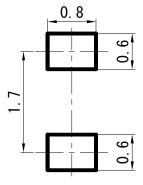
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# SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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