

### Zener Diode DZ37062D0L

1.2 0.3

<u>|</u>]1

(0.4) (0.4)

3

 $\infty$ 2

o.

2 0. 2 Unit: mm

0.52

SSSMini3-F2-B

SC-105AA SOT-723

0.13

## DZ37062D0L 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: 01

				0.8			
Packaging Embossed type (Thermo-compression set)	ealing) 10 00	0 pcs / reel (sta	indard)	1. Cathoo 2. Cathoo 3. Anode	de2		
	Panasonic	0,					
Absolute Maximum Ratings Ta =	JEITA						
Parameter	Symbol	Rating	Unit	Code			
Total power dissipation <sup>*1</sup>	PT	150	mW				
Electrostatic discharge *2	ESD	±10	kV				
Junction temperature	Tj	150	С°	Internal C			
Operating ambient temperature	Topr	-40 to +85	°C				
Storage temperature	Tstg	-55 to +150	°C		_		

Storage temperature Tstg -55 to +150 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 Ω, Contact discharge:10 times)

# Connection

#### ■ 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	5.89		6.51	V			
Zener operating resistance	RZ	IZ = 5 mA			50	Ω			
Zener rise operating resistance	RZK	IZ = 0.5 mA			100	Ω			
Reverse current	IR	VR = 4 V			0.2	μA			
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		2.3		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.

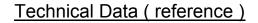
VZ value measured at other temperature must be adjusted to VZ (25°C)

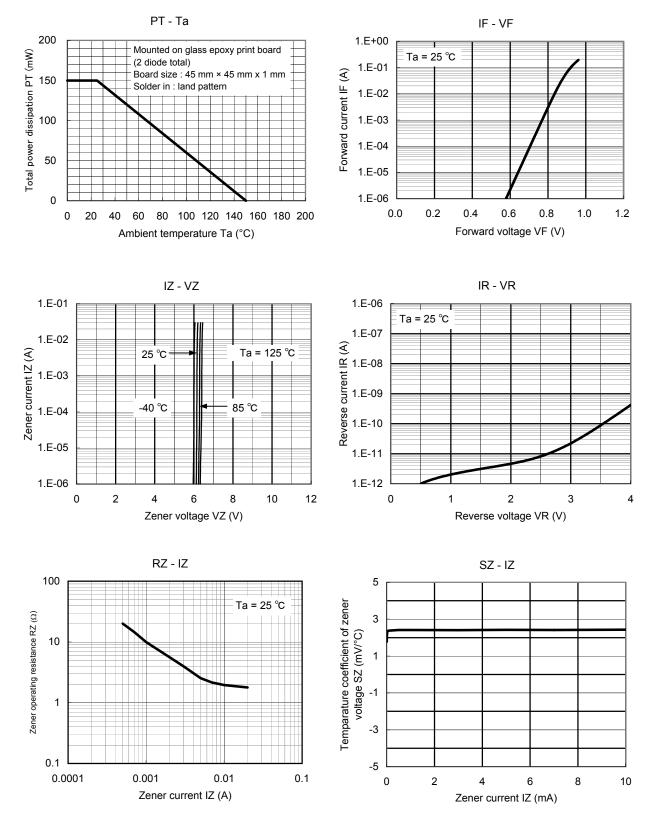
\*2: VZ guaranted 20 ms after current flow.

\*3: Tj = 25°C to 150°C



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Terminal capacitance Ct (pF)

Non-repetitive reverse surge power dissipation PZSM (W)

1

0.1 100

1000

Pulse width tw (µs)

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#### Rth - t Ct - VR 40 1000 (1) 35 Ta = 25 °C Thermal resistance Rth (°C/W) f = 1 MHz Rth(j-l) = 80 °C/W 30 (2) 100 25 20 15 10 (1) Non-heat sink 10 (2) Mounted on glass epoxy print board. Board size : 45 mm × 45 mm x 1 mm 5 Solder in : land pattern 0 11111 1 0 1 2 3 4 5 0.001 0.01 100 1000 0.1 1 10 Reverse voltage VR (V) Time t (s) PZSM - tw 100 Ta = 25 °C 10

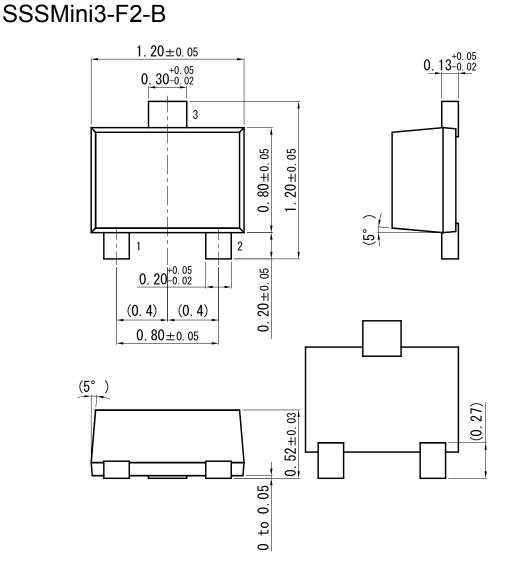
10000

# Technical Data (reference)

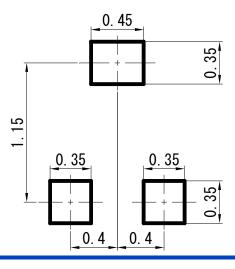


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Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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