

Zener Diode DZ37100D0L

1.2 0.3

3

ω 5

<u>.</u>

Unit: mm

0.13

DZ37100D0L 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)

Absolute Maximum Ratings Ta = 25 ° Parameter

Marking Symbol: 04

Total power dissipation Electrostatic discharge Junction temperature

Storage temperature

Operating ambient temperature

(2 Diode total)

Packaging

Embossed type (Thermo-compression sealing

S

*2: Test method:IEC61000_4_2(C = 150 pF,R = 330 Ω, Contact discharge:10 times)

Topr

Tstg

-40

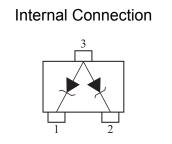
to +85

-55 to +150

ı) 10 000 pcs / reel (standard)			(0. 4) (0. 4) 0. 8						
			 Cathode1 Cathode2 Anode1,2 						
			Panasonic	SSSMini3-F2-B					
°C			JEITA	SC-105AA					
Symbol	Rating	Unit	Code	SOT-723					
PT	150	mW	_						
ESD	±10	kV							
Tj	150	°C	Intern	Internal Connection					

°C

°C



■ Electrical Characteristics Ta = 25 °C ± 3 °C

Solder in (Recommended land pattern)

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

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.

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)

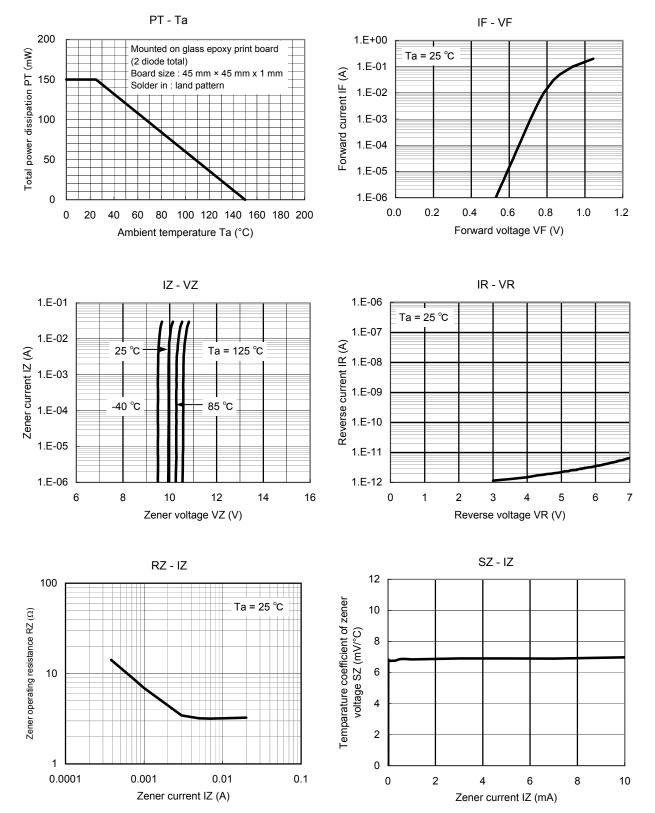
*2: VZ guaranted 20 ms after current flow.

*3: Tj = 25°C to 150°C



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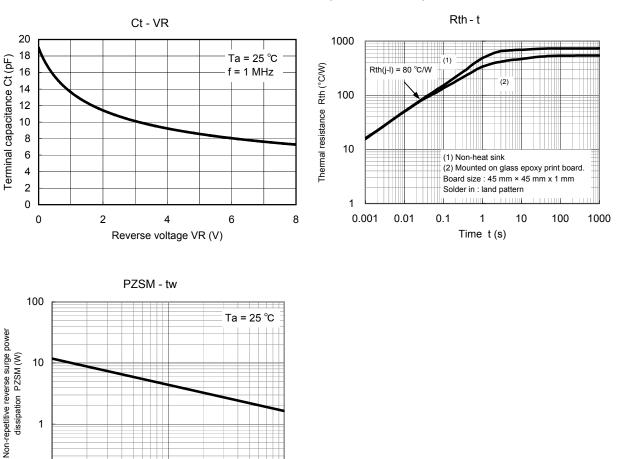


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Zener Diode DZ37100D0L



10000

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0.1 100

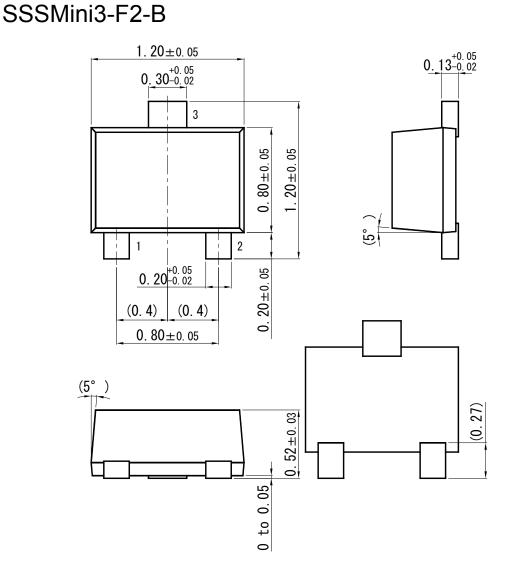
1000

Pulse width tw (µs)

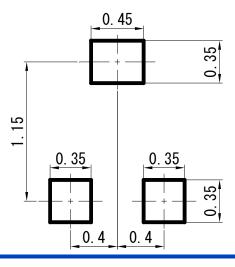


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Unit: mm



Land Pattern (Reference) (Unit: mm)



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