imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Zener Diode

Unit: mm

0.13

DZ37120D0L Silicon epitaxial planar type

For surge absorption circuit DZ3S120D 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)

Absolute Maximum Ratings Ta = 25 °C

Parameter

■ Marking Symbol: 05

Total power dissipation

Electrostatic discharge

Operating ambient temperature

(2 Diode total)

Junction temperature

Storage temperature

Packaging

Embossed type (Thermo-compression sealing) 10 000 pcs / reel (standard)

Symbol

PT

ESD

Τj

Topr

Tstg

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

	(0. 4) (0. 0. 8	4)				
lard)	 Cathode1 Cathode2 Anode1,2 					
	Panasonic	SSSMini3-F2-B				
	JEITA	SC-105AA				
Unit	Code	SOT-723				
mW						

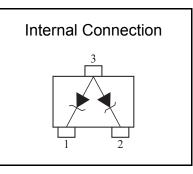
1.2

0.3

3

 ∞

ö



■ 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	11.40		12.60	V		
Zener operating resistance	RZ	IZ = 5 mA			30	Ω		
Zener rise operating resistance	RZK	IZ = 0.5 mA			80	Ω		
Reverse current	IR	VR = 9 V			0.05	μA		
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		8.5		mV/°C		

Rating

150

±10

150

-55 to +150

to +85

-40

kV

°C

°C

°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.

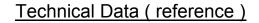
VZ value measured at other temperature must be adjusted to VZ (25°C)

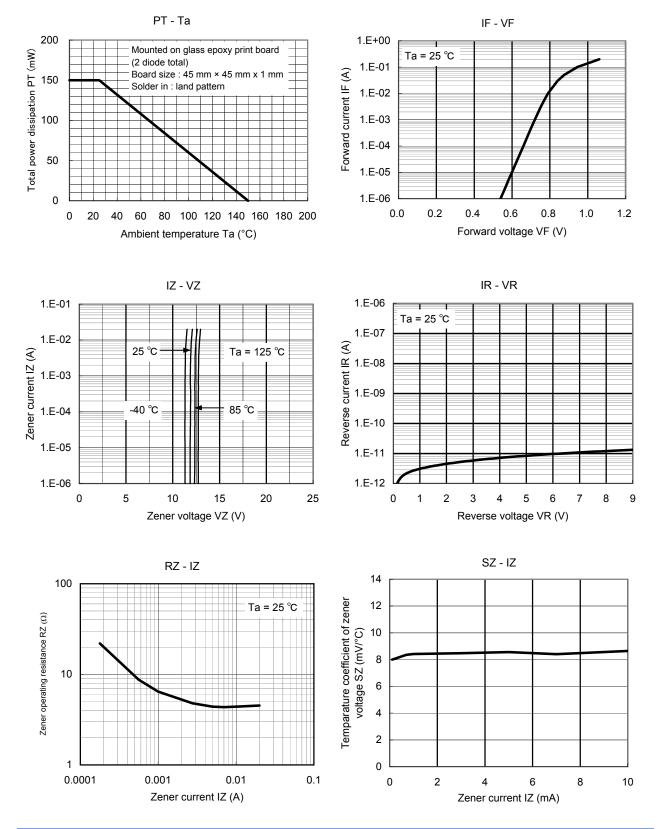
*2: VZ guaranted 20 ms after current flow.

*3: Tj = 25°C to 150°C



Zener Diode DZ37120D0L





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Terminal capacitance Ct (pF)

10

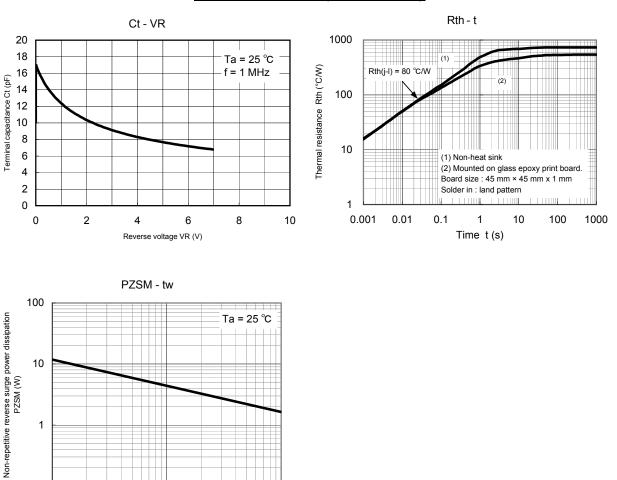
1

0.1 100

1000

Pulse width tw (µs)

Zener Diode DZ37120D0L



10000

Technical Data (reference)

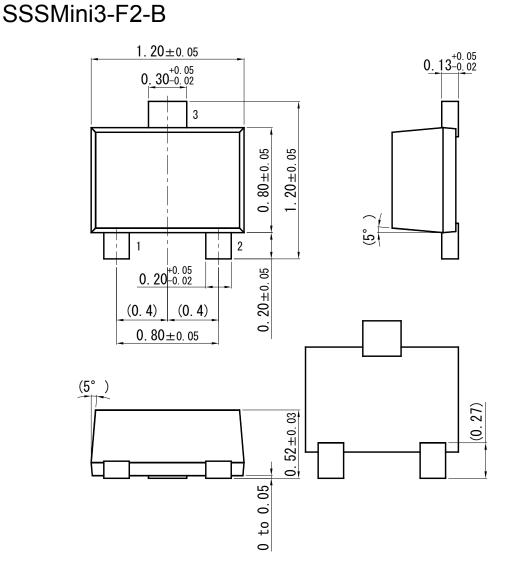


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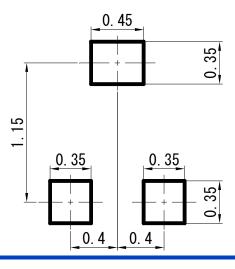


Zener Diode DZ37120D0L

Unit: mm



Land Pattern (Reference) (Unit: mm)



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