Panasonic

Zener Diode DZ2711000L

DZ2711000L Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ2S110 in SSSMini2 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: PJ

Packaging

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

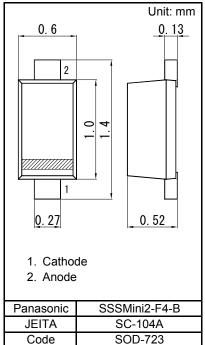
■ Absolute Maximum Ratings Ta = 25 °C

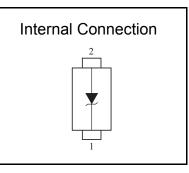
Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation ^{*1}	PT	120	mW
Electrostatic discharge *2	ESD	±8	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
	Tata		° 0

 Storage temperature
 Tstg
 -55 to +150
 °(

 Note) *1: Mounted on glass epoxy print board. (45 mm x 45 mm x 1 mm) Solder in (0.4 mm x 0.3 mm)
 Solder in (0.4 mm x 0.3 mm)

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





■ 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	10.45		11.55	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 = 8.0 V			0.05	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		8.3		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.

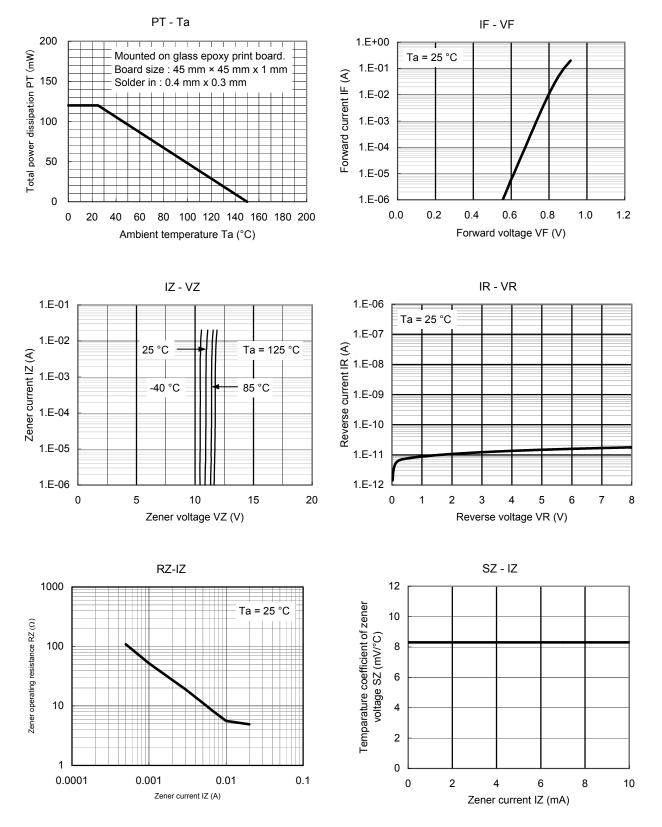
*3 Tj = 25 °C to 150 °C





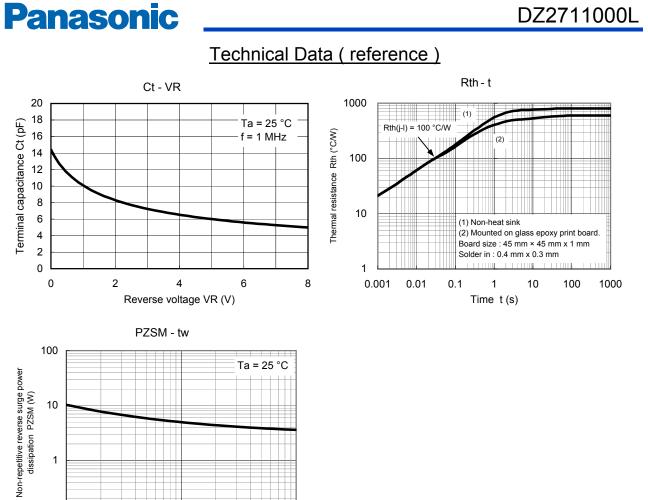
Zener Diode DZ2711000L

Technical Data (reference)



Page 2 of 4

Established : 2010-02-10 Revised : 2013-10-07



10000

Zener Diode DZ2711000L

0.1 100

1000

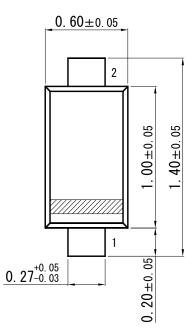
Pulse width tw (µs)

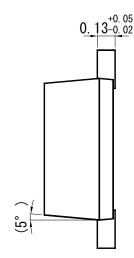


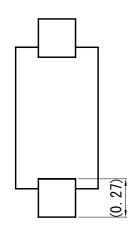
Zener Diode DZ2711000L

Unit: mm

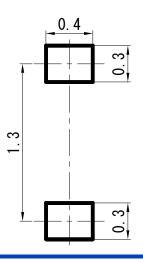
SSSMini2-F4-B







■ Land Pattern (Reference) (Unit: mm)



Established : 2010-02-10 Revised : 2013-10-07

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