Panasonic

Zener Diode DZ2727000L

DZ2727000L Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ2S270 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 FG

Packaging

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

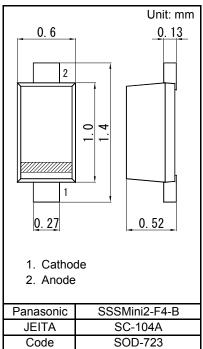
■ Absolute Maximum Ratings Ta = 25 °C

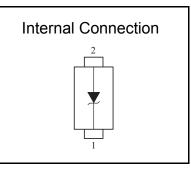
Parameter	Symbol Rating		Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation ^{*1}	PT	120	mW
Electrostatic discharge ^{*2}	ESD	±8	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	С°
Charge a tamp a return	Tata	EE to 1450	°C

 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 = 2 mA	25.65		28.35	V	
	Zener operating resistance	RZ	IZ = 2 mA			120	Ω	
	Zener rise operating resistance	RZK	IZ = 0.5 mA			120	Ω	
	Reverse current	IR	VR = 21 V			0.05	μA	

Temperature coefficient of zener voltage *3SZIZ = 2 mA26.3mV/°CNote)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.

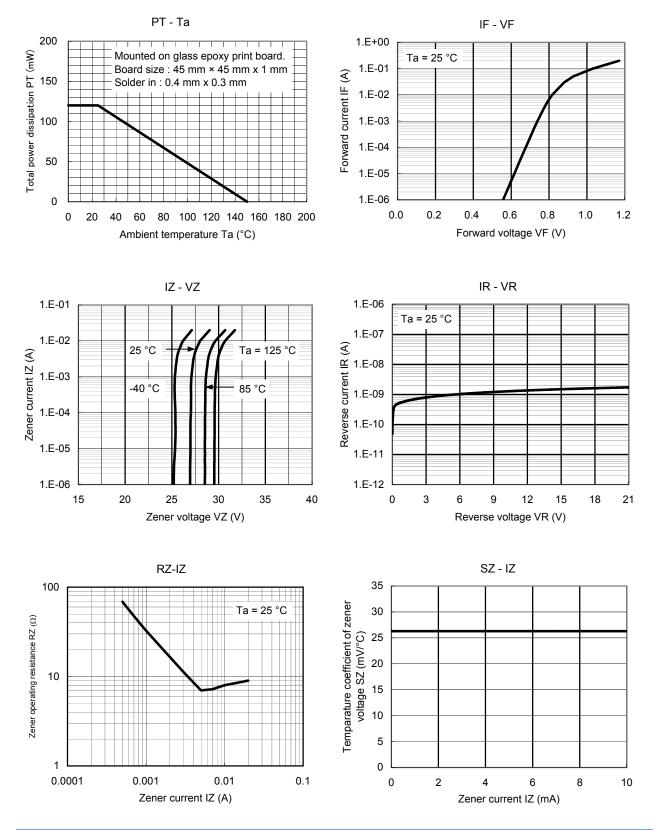
*3 Tj = 25 °C to 150 °C





Zener Diode DZ2727000L

Technical Data (reference)

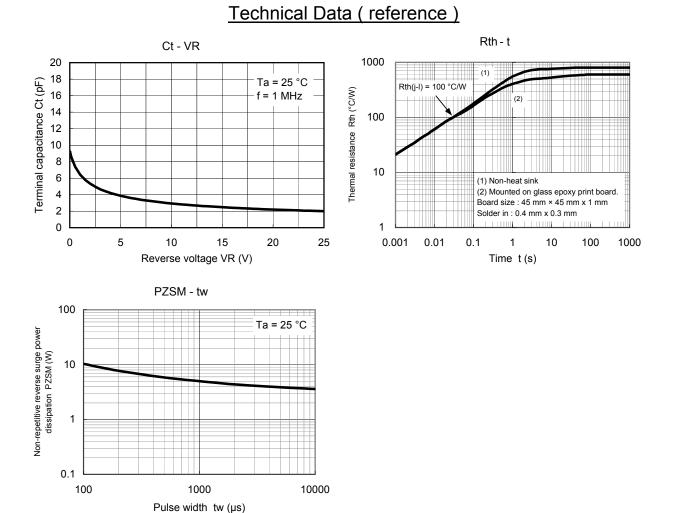


Page 2 of 4

Established : 2010-08-25 Revised : 2013-10-16



Zener Diode DZ2727000L

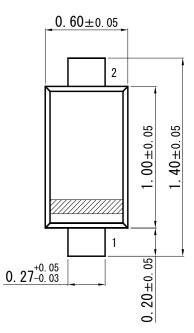


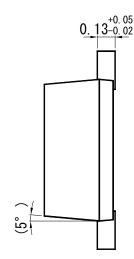
Page 3 of 4

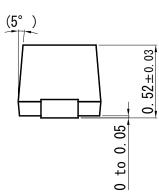


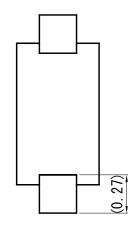
Zener Diode DZ2727000L

SSSMini2-F4-B

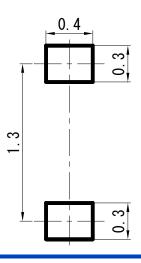








Land Pattern (Reference) (Unit: mm)



Established : 2010-08-25 Revised : 2013-10-16 Unit: mm

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