# Panasonic

Zener Diode DZ2S027×0L

### DZ2S027×0L Silicon epitaxial planar type

## For constant voltage / For surge absorption circuit DZ2J027 in SSMini2 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: 2J or 2U

#### Packaging

Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Absolute Maximum Ratings Ta = 25 °C						
Parameter	Symbol	Rating	Unit			
Repetitive peak forward current	it IFRM 200		mA			
Total power dissipation *1	PT	150	mW			
Electrostatic discharge <sup>*2</sup>	ESD	±15	kV			
Junction temperature	Tj	150	°C			
Operating ambient temperature	Topr	-40 to +85	°C			
Storage temperature	Tstg	-55 to +150	°C			

 
 Storage temperature
 Tstg
 -55 to +150
 °C

 Note)
 \*1
 Mounted on glass epoxy print board (45 mm × 45 mm × 1 mm) Solder in (0.8 mm × 0.6 mm)

\*2 Test method : IEC61000\_4\_2

(C = 150 pF, R = 330  $\Omega$ , 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 <sup>*1, *2</sup>	VZ	IZ = 5 mA	2.57		2.84	V
Zener operating resistance	RZ	IZ = 5 mA			110	Ω
Reverse current	IR	VR = 1 V			120	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		-1.9		mV/°C

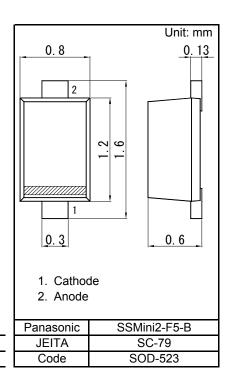
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

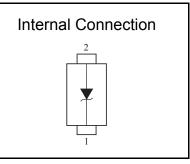
2. Absolute frequency of input and output is 5 MHz.

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	Rank classification	l .					
*3	Tj = 25 °C to 150 °C	Code	М			0		
		Rank	Rank M		No-rank			
		VZ	2.63	to	2.77	2.57	to	2.84
		Marking symbol	2U		2J			

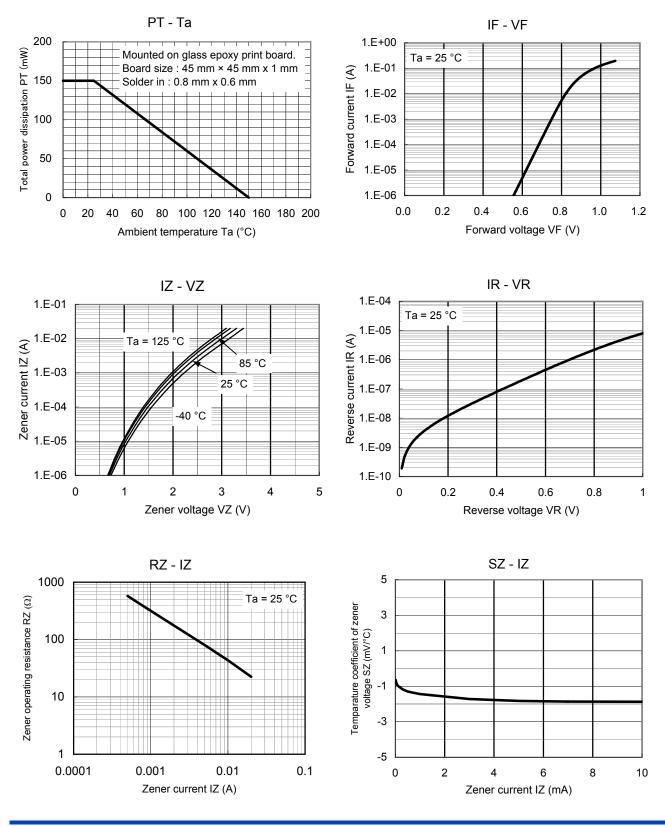






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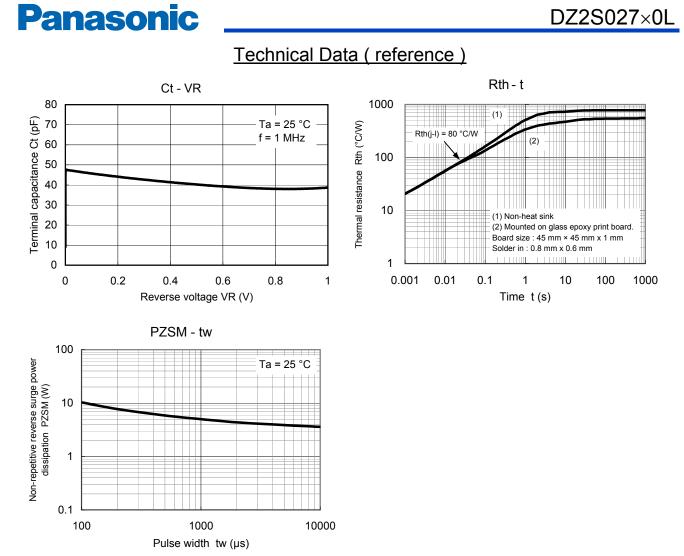
### Technical Data (reference)





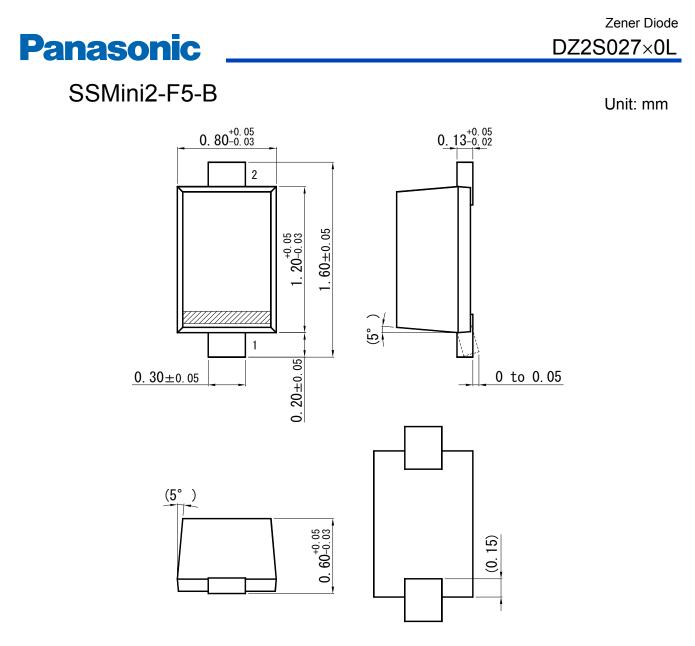
Established : 2009-11-09 Revised : 2013-07-16

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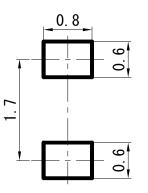


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Land Pattern (Reference) (Unit: mm)



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