Panasonic

Zener Diode

DZ2J130×0L Silicon epitaxial planar type

For constant voltage / 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)
- Marking Symbol: SJ or SU

Packaging

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

Absolute Maximum Ratings Ta = 25 °C

Faiaillelei	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation ^{*1}	PT	200	mW
Electrostatic discharge *2	ESD	±8	kV
Junction temperature	Tj	150	С°
Operating ambient temperature	Topr	-40 to +85	С°
Storage temperature	Tstg	-55 to +150	°C

 Storage temperature
 I stg
 -55 to
 -10 |
 -0

 Note)
 *1
 Mounted on glass epoxy print board (45 mm × 45 mm × 1 mm) Solder in (Recommended land pattern)

*2 Test method : IEC61000_4_2

(C = 150 pF, R = 330 Ω , Contact discharge : 10 times)

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

\blacksquare 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	12.40		13.65	V
Zener operating resistance	RZ	IZ = 5 mA			35	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			80	Ω
Reverse current	IR	VR = 10 V			0.05	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		10.9		mV/°C

Deting

Linit

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.

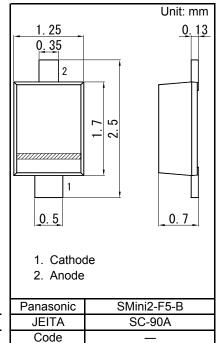
3. *1 The temperature must be controlled 25 °C for VZ mesurement.

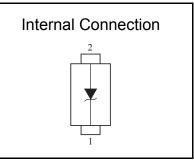
VZ value measured at other temperature must be adjusted to VZ (25 °C).

*2 VZ guaranted 20 ms after current flow Rank classification

*3	Tj = 25 °C to 150 °C
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k classification					
Code	М		0		
Rank	M		No-rank		
VZ	12.74	to 13.40	12.40	to 13.65	
Marking symbol		SU		SJ	

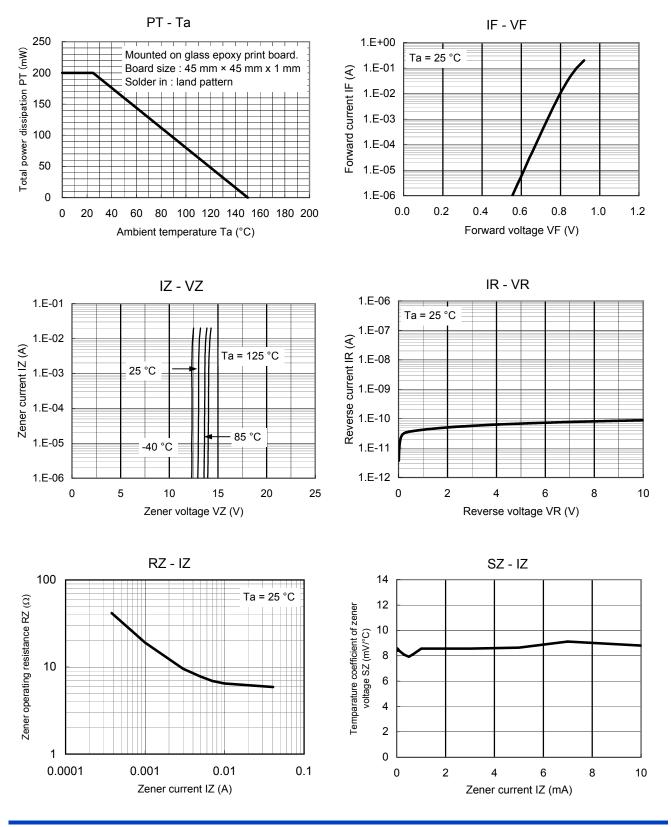






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Technical Data (reference)



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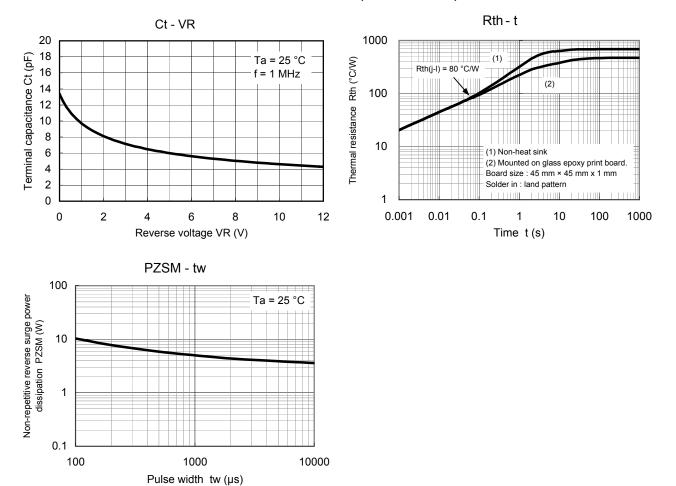
Established : 2009-10-14 Revised : 2013-07-12

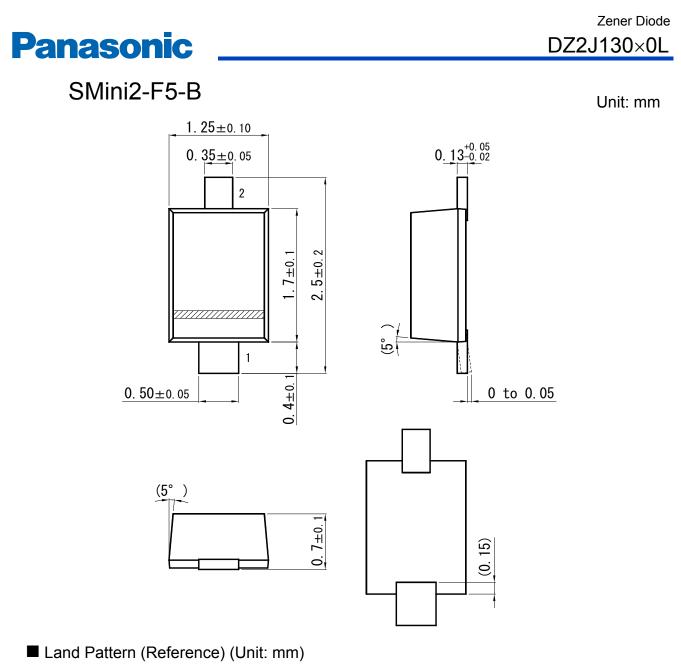


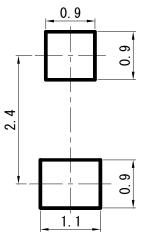


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Technical Data (reference)







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