

# DZ2J270×0L

## Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

### ■ Features

- Excellent rising characteristics of zener current  $I_Z$
- Low zener operating resistance  $R_Z$
- Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

### ■ Marking Symbol: FG or FR

### ■ Packaging

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

### ■ Absolute Maximum Ratings $T_a = 25\text{ }^\circ\text{C}$

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

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 $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage <sup>*1, *2</sup>	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 <sup>*3</sup>	SZ	IZ = 2 mA		26.3		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 measurement.

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

\*2 VZ guaranteed 20 ms after current flow

\*3 Tj = 25 °C to 150 °C

#### Rank classification

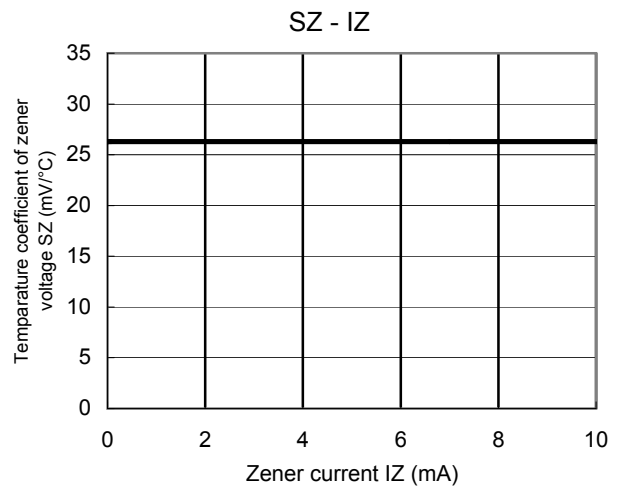
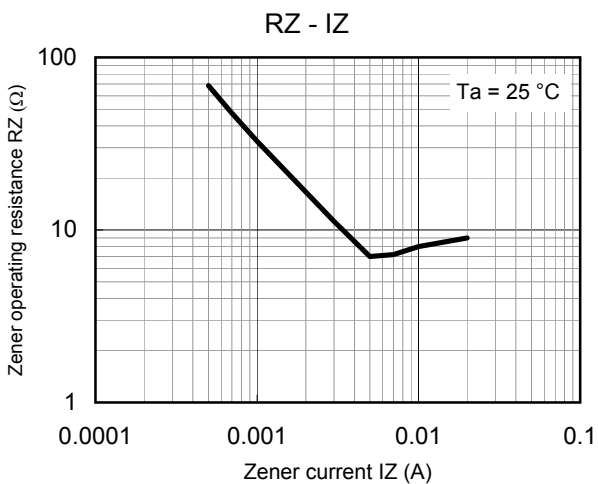
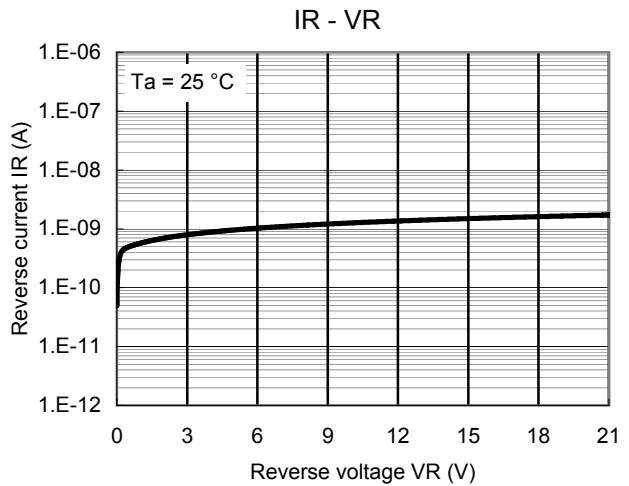
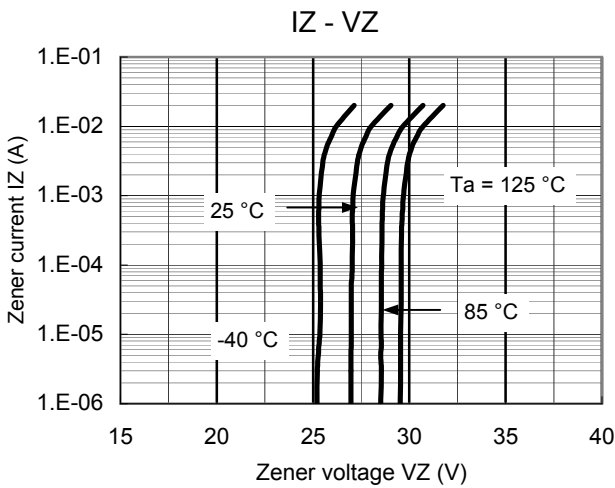
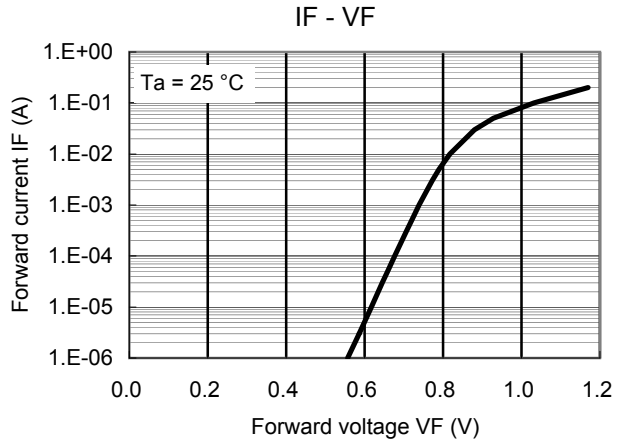
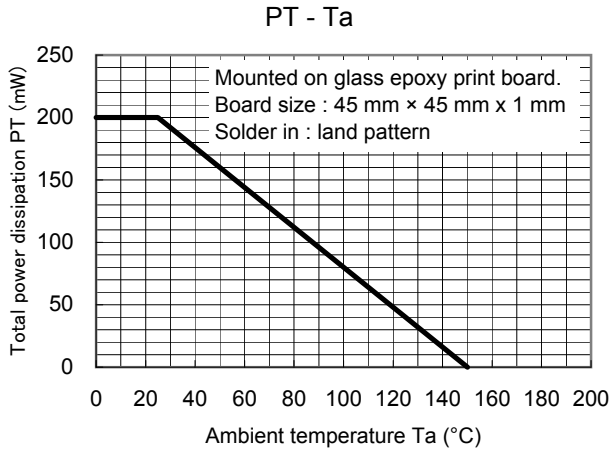
Code	M	O
Rank	M	No-rank
VZ	26.33 to 27.68	25.65 to 28.35
Marking symbol	FR	FG



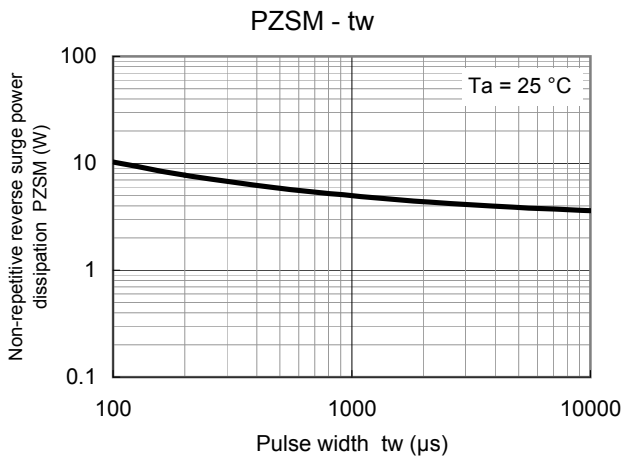
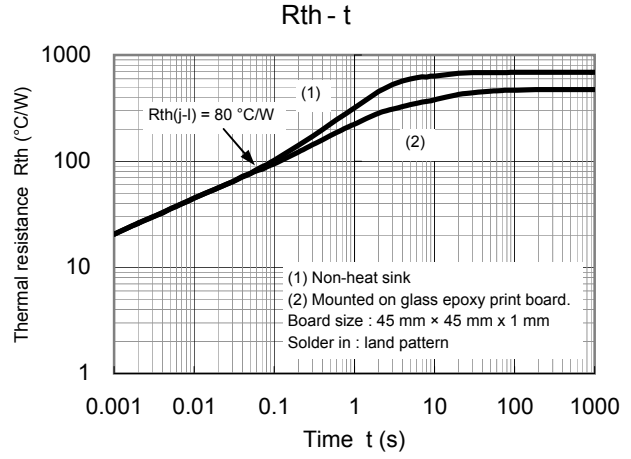
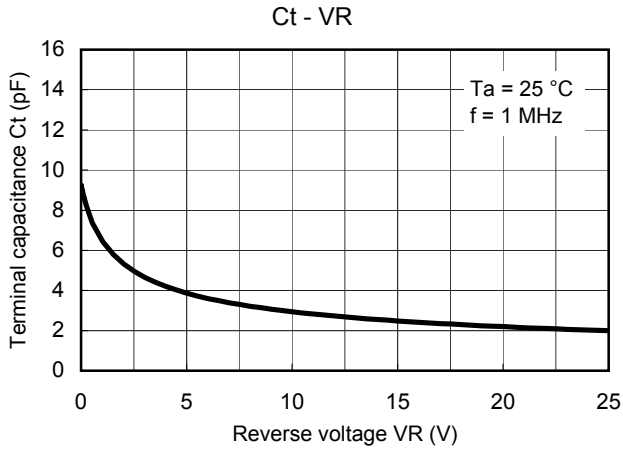
Panasonic	SMini2-F5-B
JEITA	SC-90A
Code	—



Technical Data ( reference )

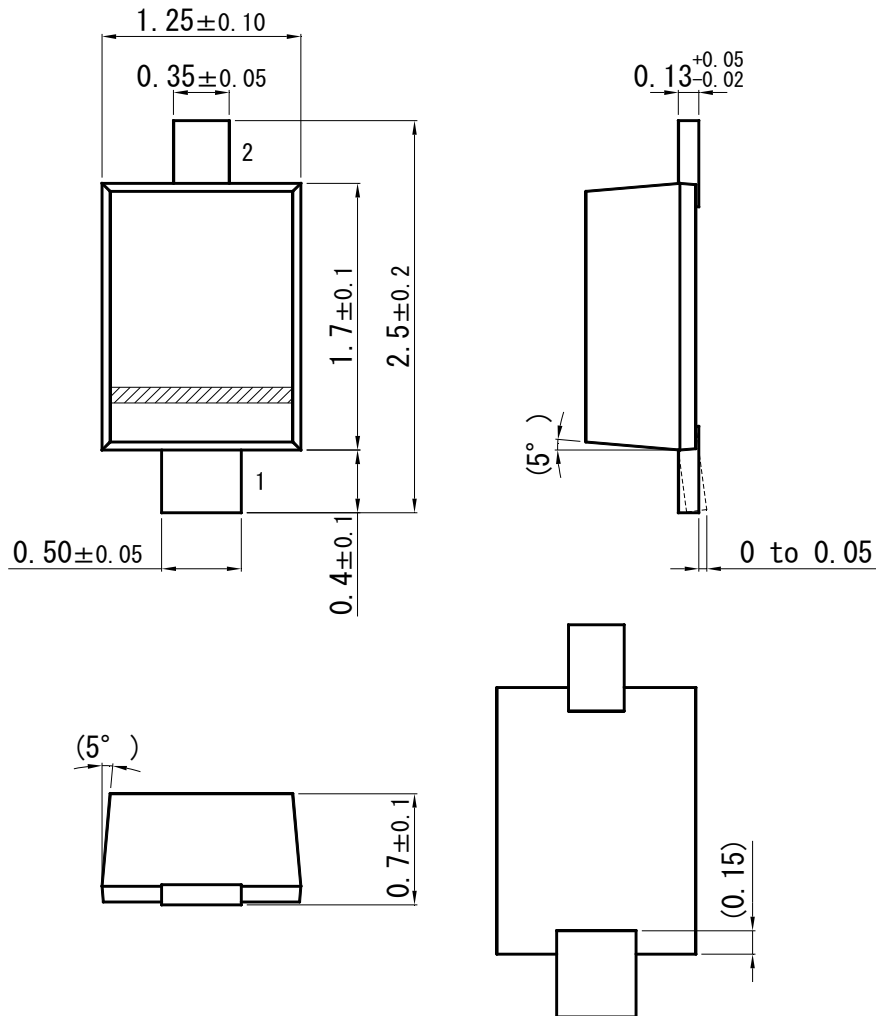


Technical Data ( reference )



SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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