



## DZ4J047K0R

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: AJ

### ■ Basic Part Number :

Dual DZ2J047 (Parallel)

### ■ 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	±15	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 x 45 mm x 1 mm)

Solder in ( 0.8 mm x 0.8 mm)

\*2: Test method: IEC61000\_4\_2(C = 150 pF, R = 330  $\Omega$ , 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 = 5 mA	4.47		4.94	V
Zener operating resistance	RZ	IZ = 5 mA			80	$\Omega$
Zener rise operating resistance	RZK	IZ = 1 mA			800	$\Omega$
Reverse current	IR	VR = 1 V			2.0	$\mu\text{A}$
Temperature coefficient of zener voltage <sup>*3</sup>	SZ	IZ = 5 mA		0.5		mV/°C

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

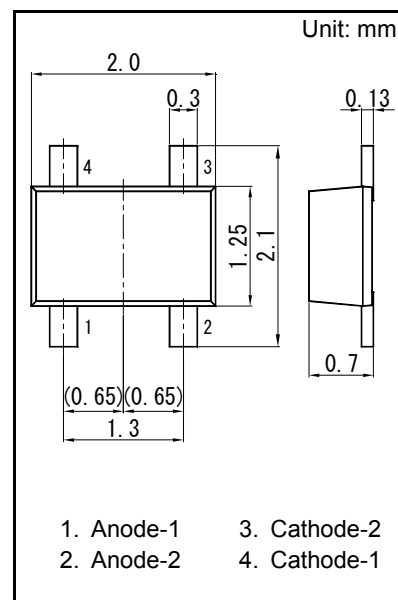
2. Absolute frequency of input and output is 5 MHz.

3. \*1: The temperature must be controlled 25 °C for VZ measurement.

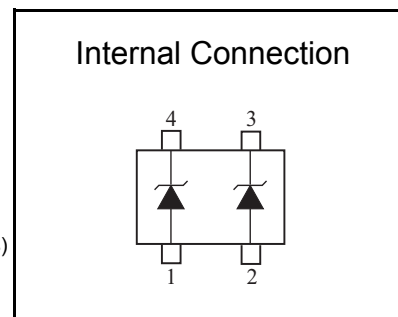
VZ value measured at other temperature must be adjusted to VZ (25 °C)

\*2: VZ guaranteed 20 ms after current flow.

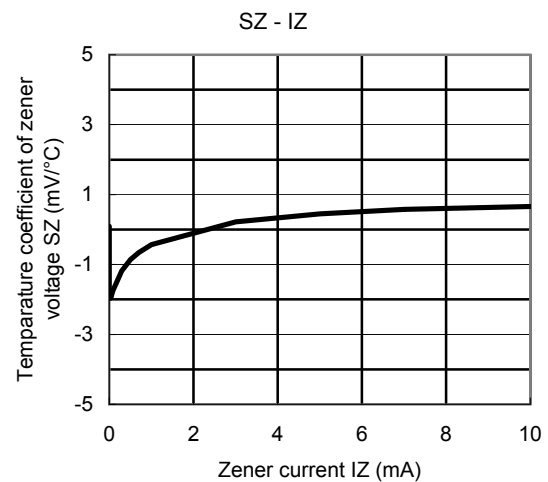
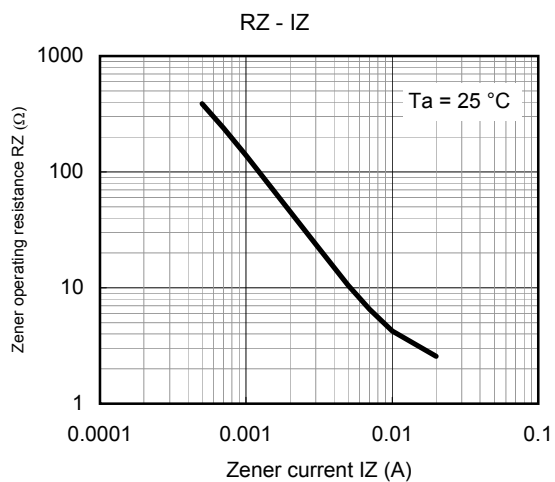
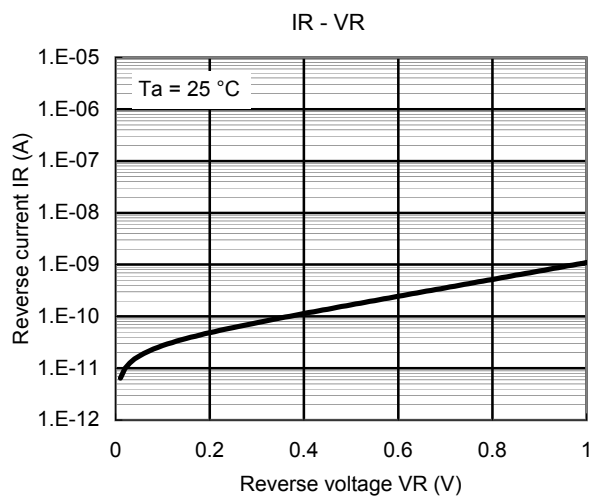
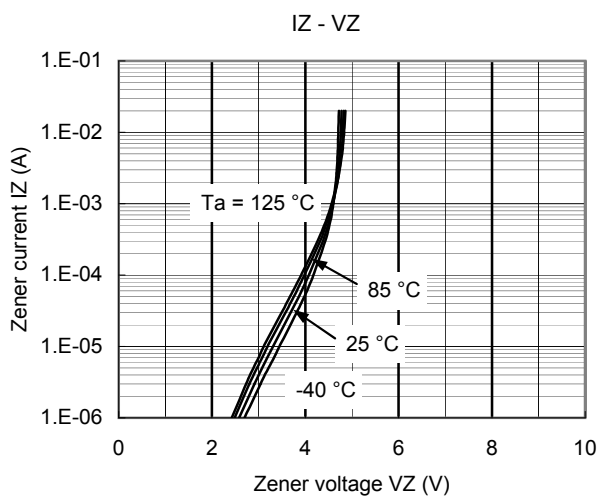
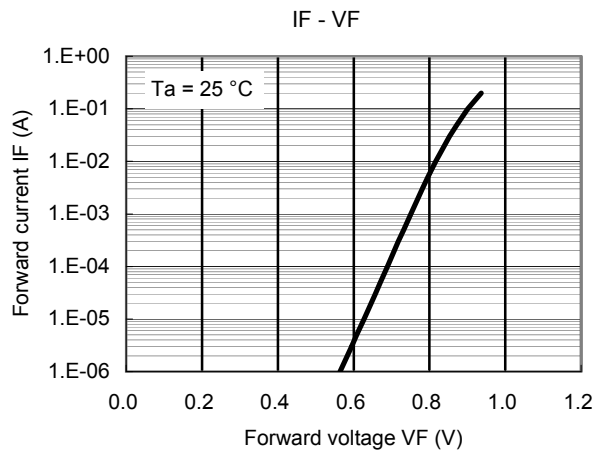
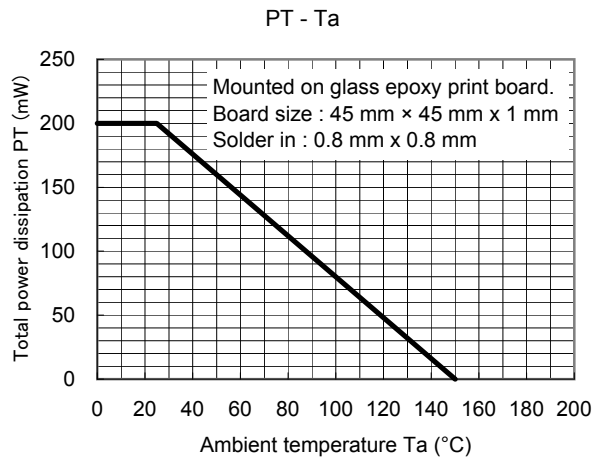
\*3: Tj = 25 °C to 150 °C



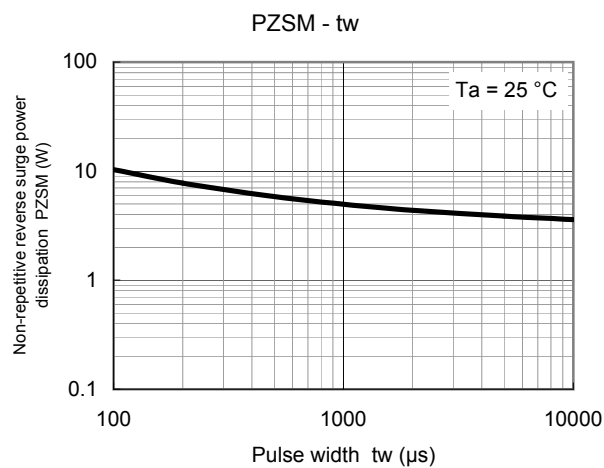
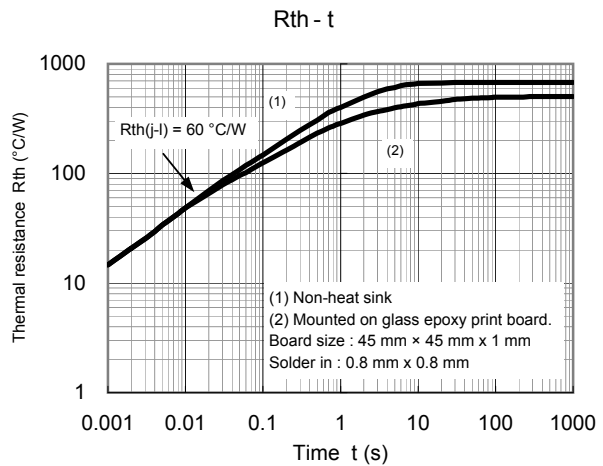
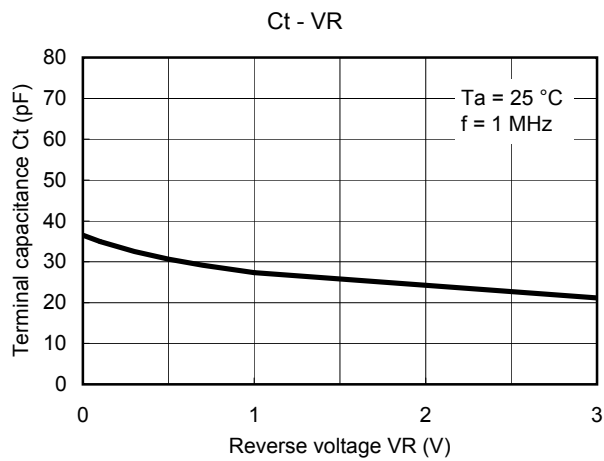
Panasonic	SMini4-F3-B
JEITA	SC-113BB
Code	—



Technical Data ( reference )

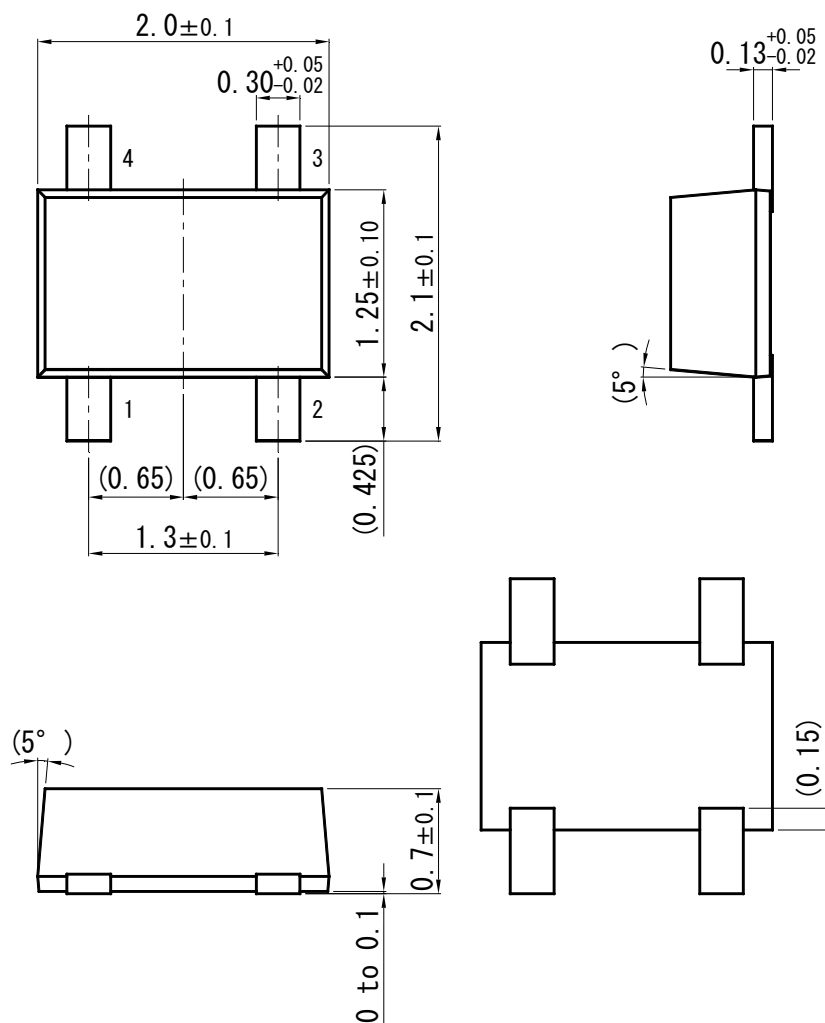


Technical Data ( reference )

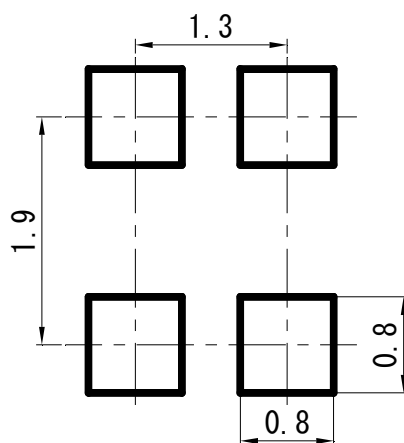


**SMini4-F3-B**

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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