



Zener Diode  
DZ2406800L

## DZ2406800L

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

Capability of withstanding a high surge type

DZ2W068 in Power type package

### ■ 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: GJ

### ■ Packaging

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

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

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	500	mA
Forward current	IF	400	mA
Total power dissipation <sup>*1</sup>	PT	2	W
Non-repetitive reverse power surge <sup>*2</sup>	PZSM	100	W
Electrostatic discharge <sup>*3</sup>	ESD	$\pm 30$	kV
Junction temperature	T <sub>j</sub>	150	$^\circ\text{C}$
Operating ambient temperature	T <sub>opr</sub>	-40 to +85	$^\circ\text{C}$
Storage temperature	T <sub>stg</sub>	-55 to +150	$^\circ\text{C}$

Note: \*1 Mounted on ceramics print circuit board.

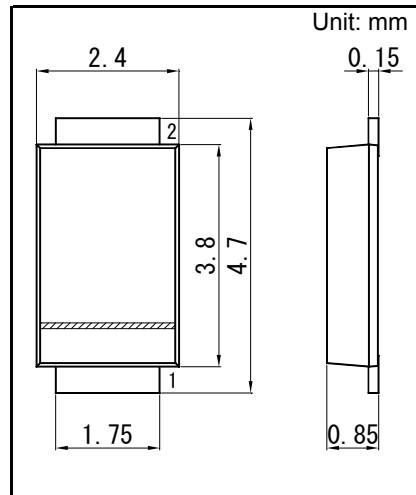
Board size: 50 mm  $\times$  50 mm

Board thickness: 0.8 mm

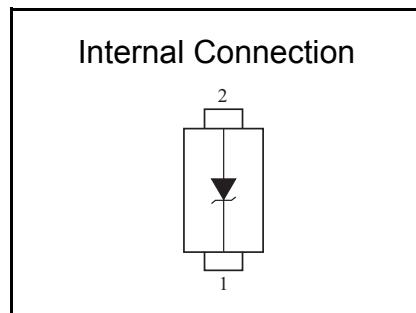
Soldering size: 2 mm  $\times$  2 mm

\*2  $t = 0.1\text{ms}$

\*3 Test method:IEC61000\_4\_2(C = 150 pF, R = 330  $\Omega$ , Contact discharge:10 times)



Panasonic	TMiniP2-F2-B
JEITA	SC-110A
Code	—



### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 200 mA			1.2	V
Zener voltage <sup>*1, *2</sup>	VZ	IZ = 10 mA	6.46	6.80	7.14	V
Zener operating resistance	RZ	IZ = 10 mA			30	$\Omega$
Reverse current	IR	VR = 3.0 V			10	$\mu\text{A}$
Temperature coefficient of zener voltage <sup>*3</sup>	SZ	IZ = 10 mA		3.2		$\text{mV}/^\circ\text{C}$

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  $25^\circ\text{C}$  for VZ measurement.

VZ value measured at other temperature must be adjusted to VZ ( $25^\circ\text{C}$ )

\*2 VZ guaranteed 20 ms after current flow.

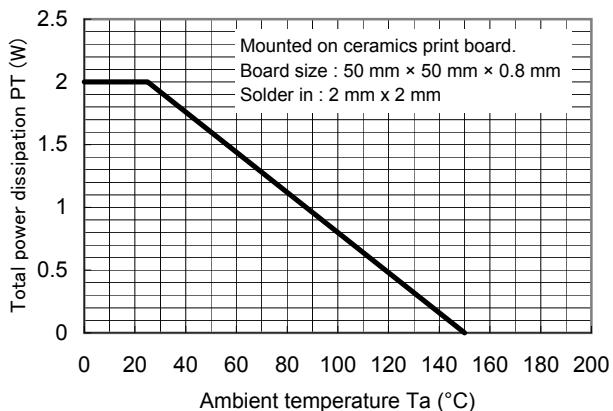
\*3  $T_j = 25^\circ\text{C}$  to  $150^\circ\text{C}$



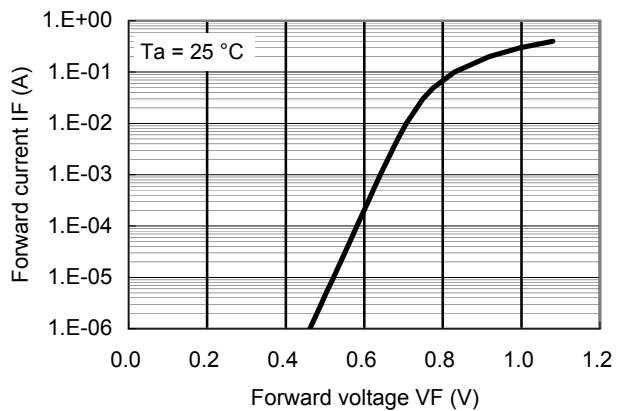
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### Technical Data ( reference )

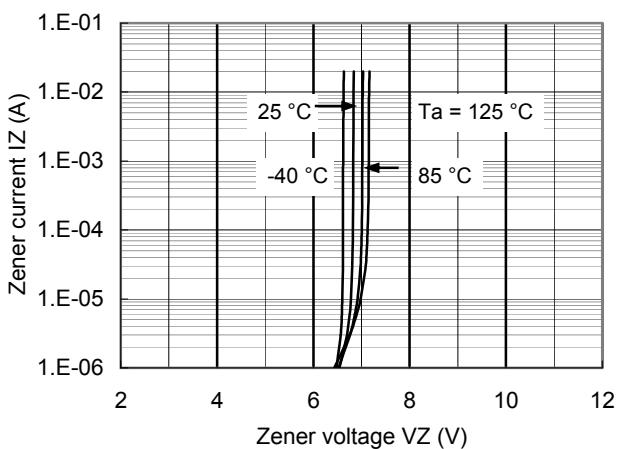
PT - Ta



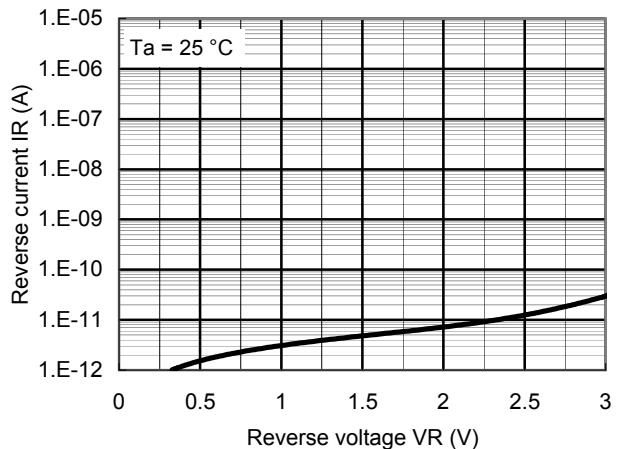
IF - VF



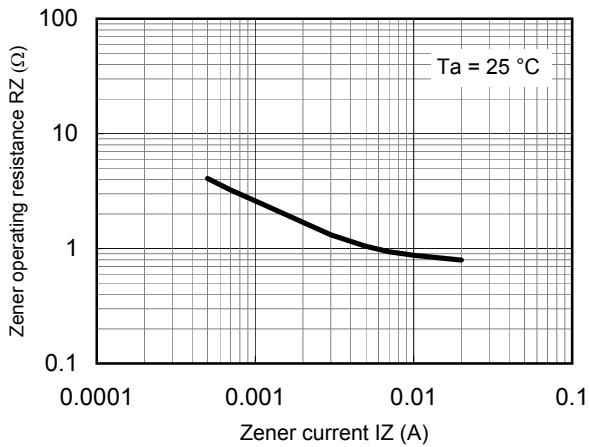
IZ - VZ



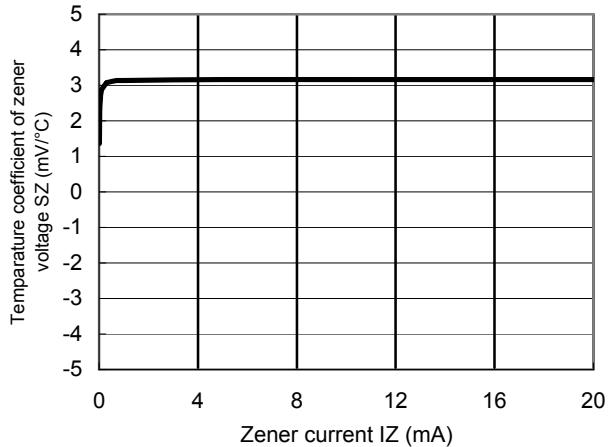
IR - VR



RZ - IZ



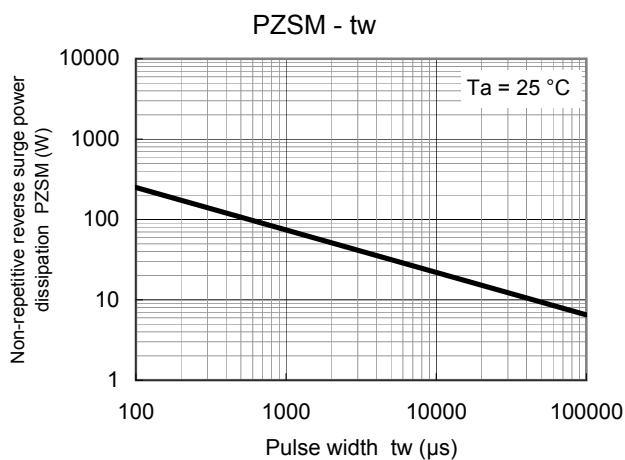
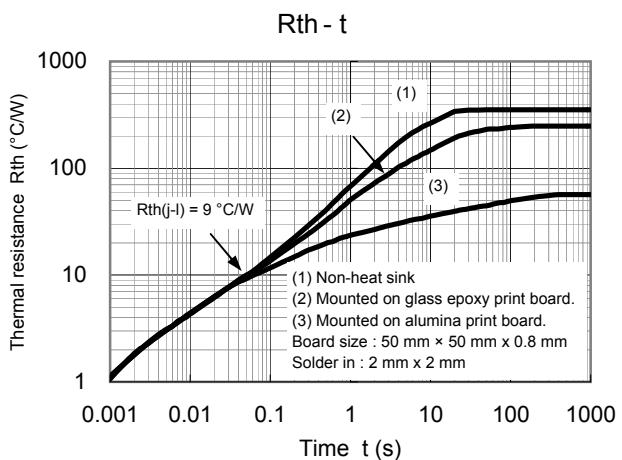
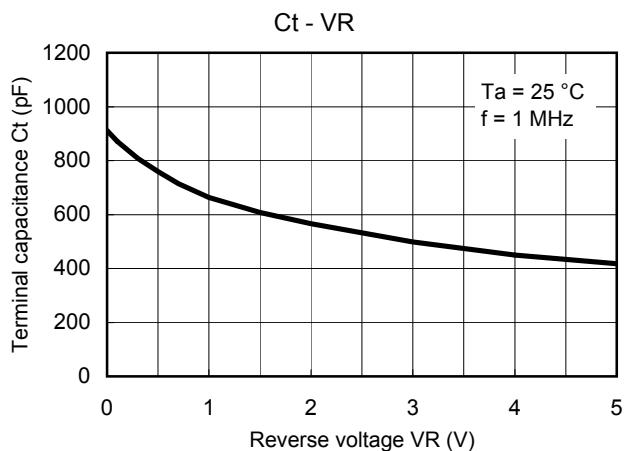
SZ - IZ





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Technical Data ( reference )

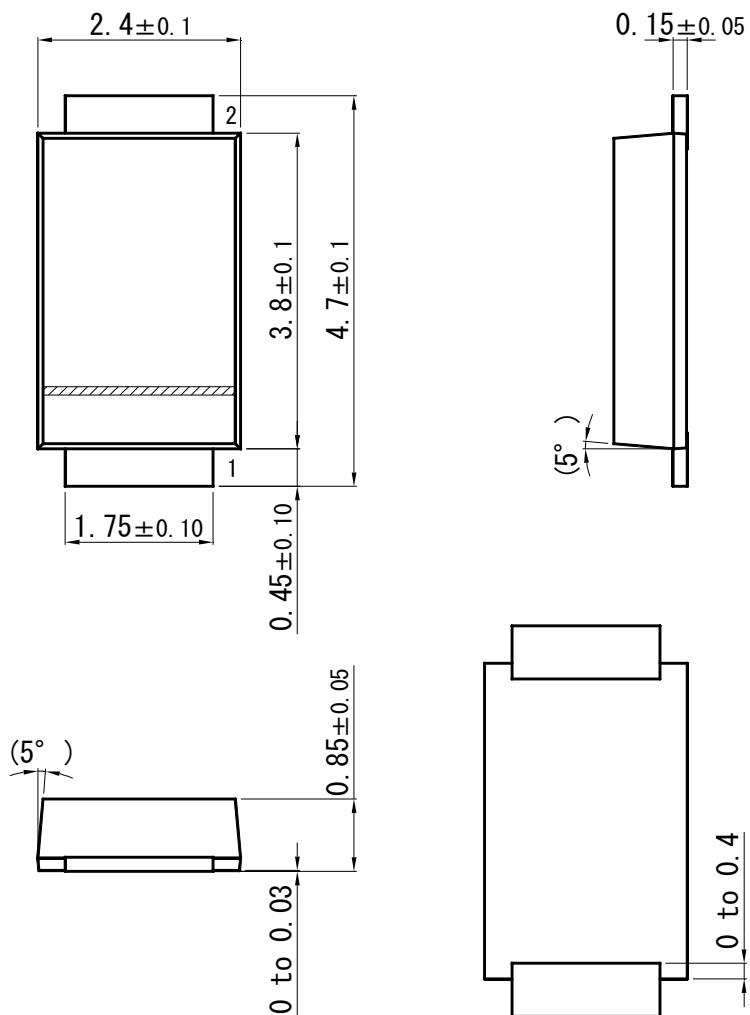


**Panasonic**

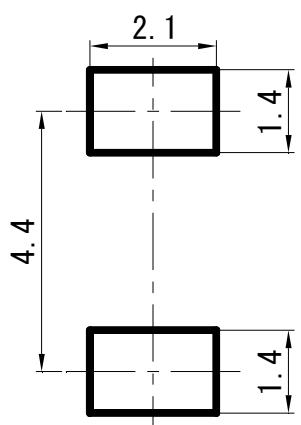
Zener Diode  
**DZ2406800L**

**TMiniP2-F2-B**

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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