

DZ2418000L

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

Capability of withstanding a high surge type

DZ2W180 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: YJ

■ 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	IFRM	500	mA
Forward current	IF	400	mA
Total power dissipation ^{*1}	PT	2	W
Non-repetitive reverse power surge ^{*2}	PZSM	100	W
Electrostatic discharge ^{*3}	ESD	±30	kV
Junction temperature	T _j	150	°C
Operating ambient temperature	T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +150	°C

Note: ^{*1} Mounted on ceramics print circuit board.

Board size: 50 mm × 50 mm

Board thickness: 0.8 mm

Soldering size: 2 mm × 2 mm

^{*2} t = 0.1ms

^{*3} Test method: IEC61000_4_2(C = 150 pF, R = 330 Ω, Contact discharge: 10 times)

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 200 mA			1.2	V
Zener voltage ^{*1, *2}	V _Z	I _Z = 10 mA	17.10	18.00	18.90	V
Zener operating resistance	R _Z	I _Z = 10 mA			30	Ω
Reverse current	I _R	V _R = 13.0 V			10	μA
Temperature coefficient of zener voltage ^{*3}	SZ	I _Z = 10 mA		15.8		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 V_Z measurement.

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

^{*2} V_Z guaranteed 20 ms after current flow.

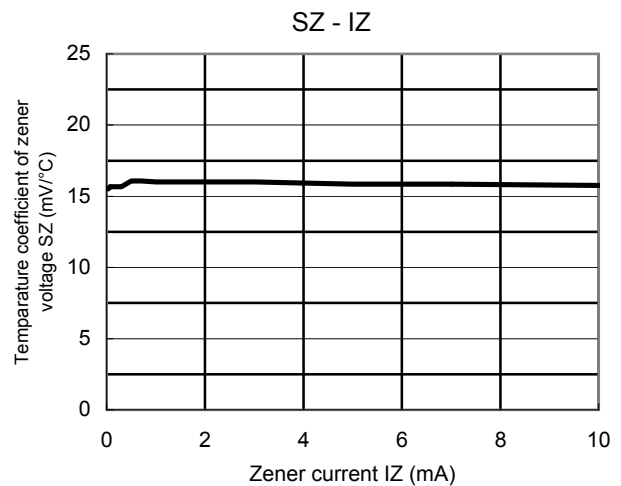
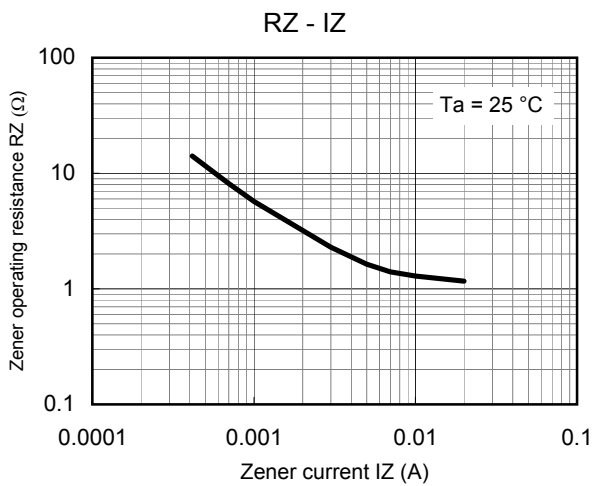
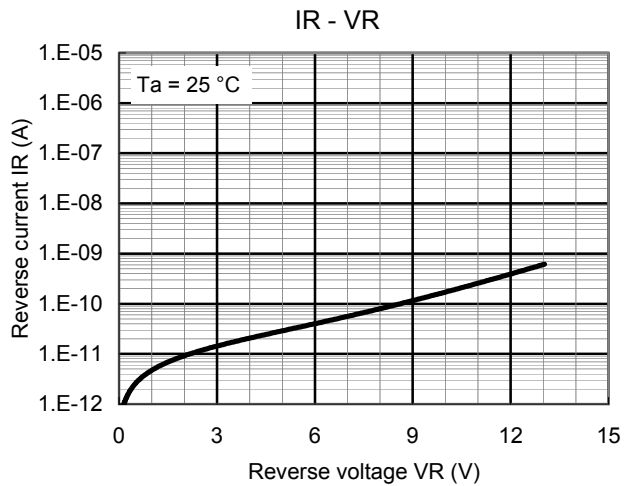
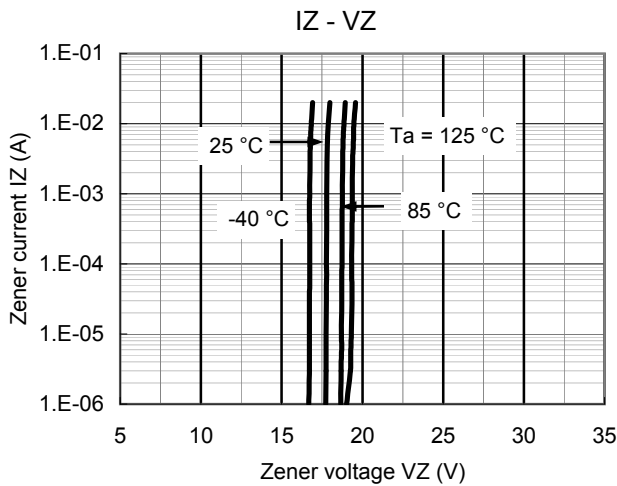
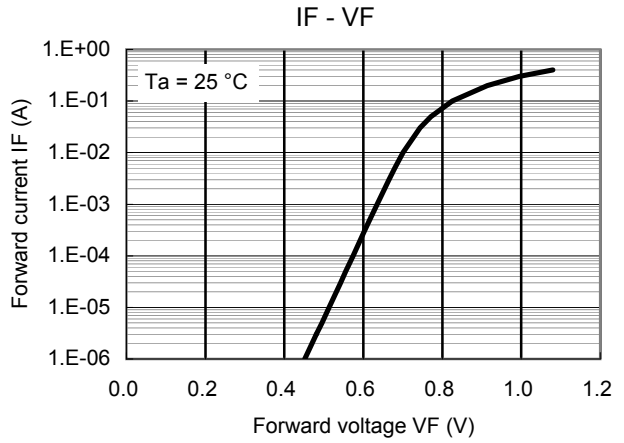
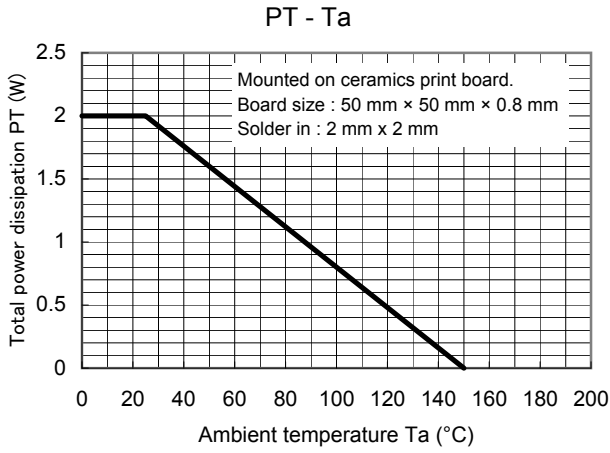
^{*3} T_j = 25°C to 150°C



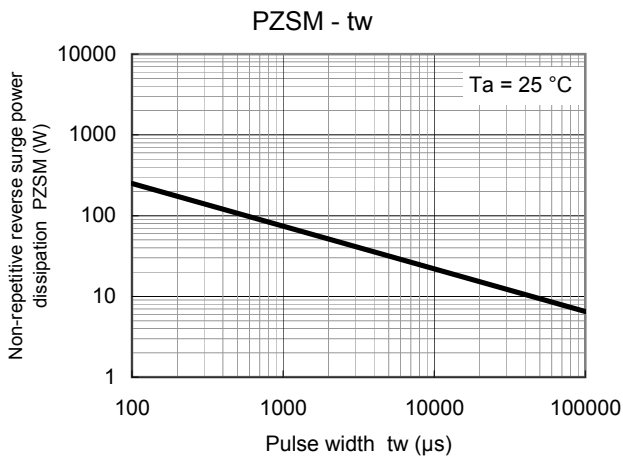
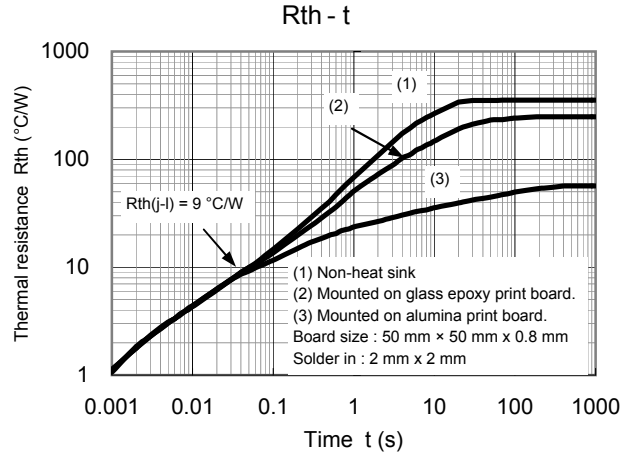
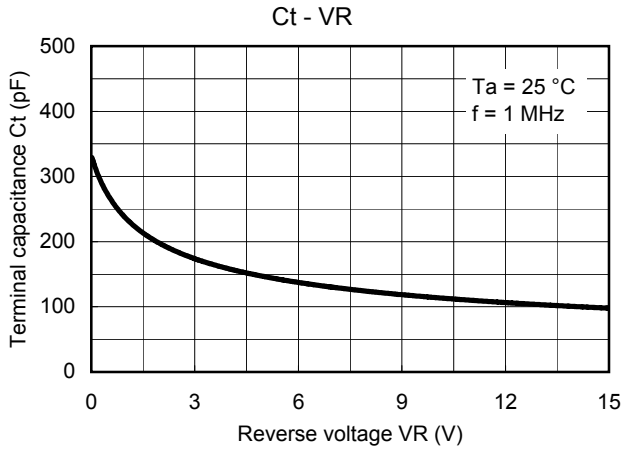
Panasonic	TMiniP2-F2-B
JEITA	SC-110A
Code	—



Technical Data (reference)

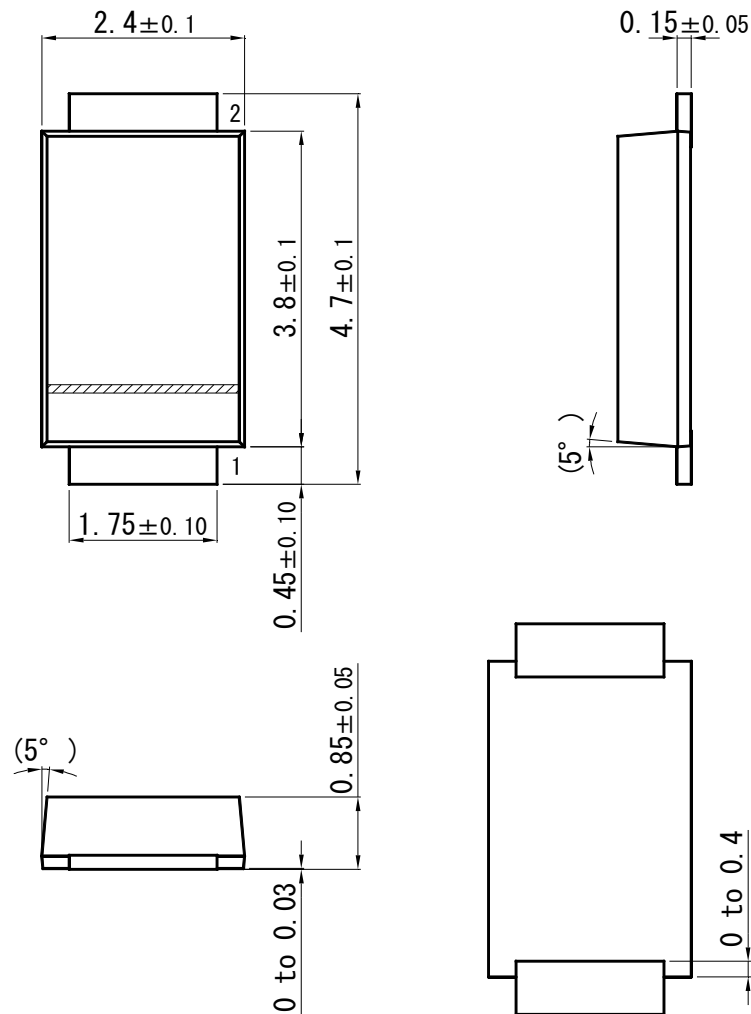


Technical Data (reference)



TMiniP2-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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