

DZ2415000L

Zener Diode DZ2415000L

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit Capability of withstanding a high surge type DZ2W150 in Power type package

Features

- Excellent rising characteristics of zener current Iz •
- Low zener operating resistance Rz
- Halogen-free / RoHS compliant ٠ (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: UJ

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	Tj	150	°C				
Operating ambient temperature	Topr	-40 to +85	°C				
Storage temperature	Tstg	-55 to +150	°C				
Note: *1 Mounted on ceramics print circuit board.							
Board size: 50 mm × 50 mm							
Board thickness: 0.8 mm							

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Soldering size: 2 mm × 2 mm

*2 t = 0.1 ms

*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	Тур	Max	Unit
Forward voltage	VF	IF = 200 mA			1.2	V
Zener voltage ^{*1, *2}	VZ	IZ = 10 mA	14.25	15.00	15.75	V
Zener operating resistance	RZ	IZ = 10 mA			30	Ω
Reverse current	IR	VR = 10.0 V			10	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 10 mA		12.4		mV/°C

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

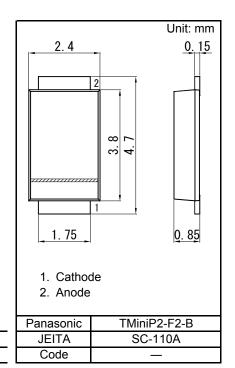
2. Absolute frequency of input and output is 5 MHz.

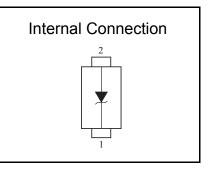
3. *1 The temperature must be controlled 25°C for VZ mesurement.

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

*2 VZ guaranted 20 ms after current flow.

*3 Tj = 25°C to 150°C

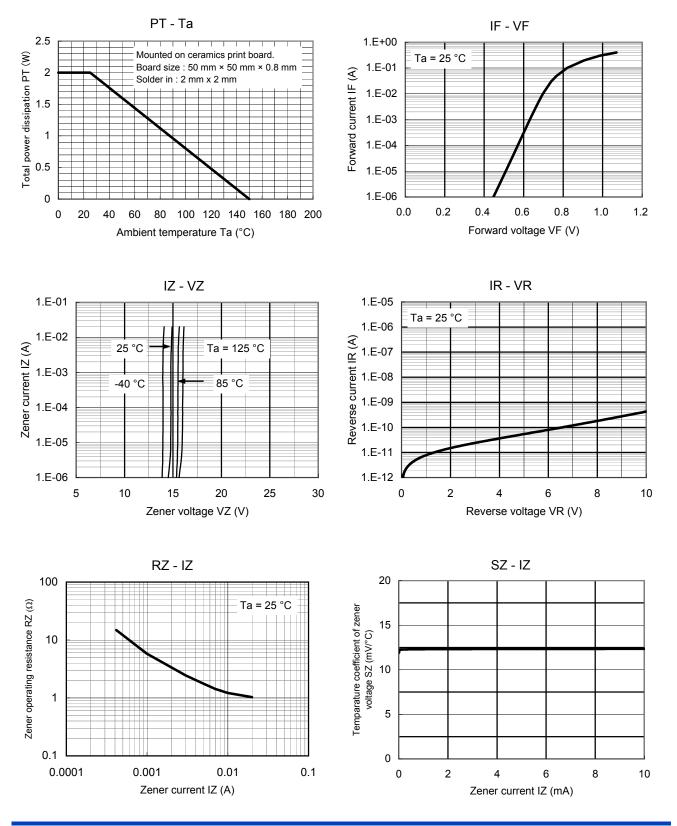






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Technical Data (reference)



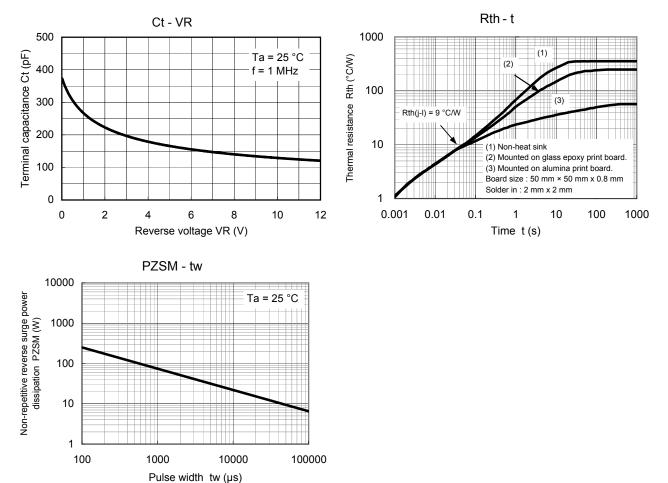
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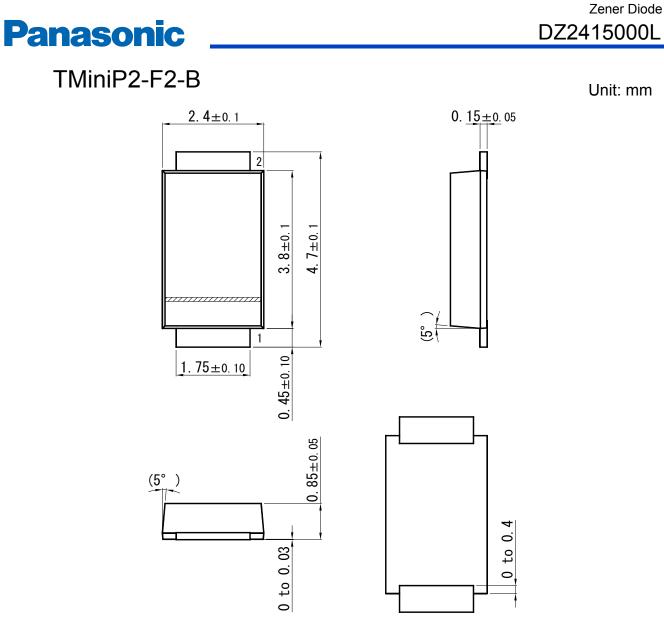


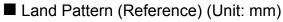
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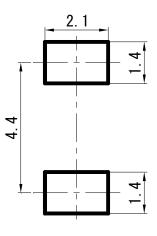




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