

Zener Diode DZ2W47000L

DZ2W47000L Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ24470 in Mini2 type package

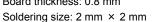
Features

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

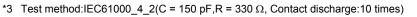
Packaging

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	200	mA			
Total power dissipation ^{*1}	PT	1	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						



*2 t = 0.1ms



■ 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 = 5 mA	44.65	47.00	49.35	V
Zener operating resistance	RZ	IZ = 5 mA			65	Ω
Reverse current	IR	VR = 37.6 V			10	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		55.0		mV/°C

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

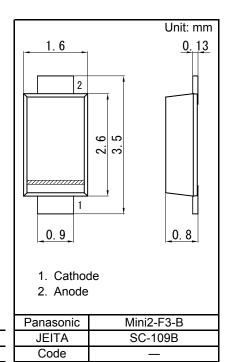
2. Absolute frequency of input and output is 5 MHz.

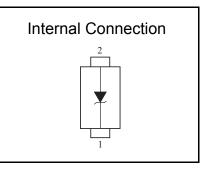
3. *1 The temperature must be controlled 25°C for VZ mesurement.

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

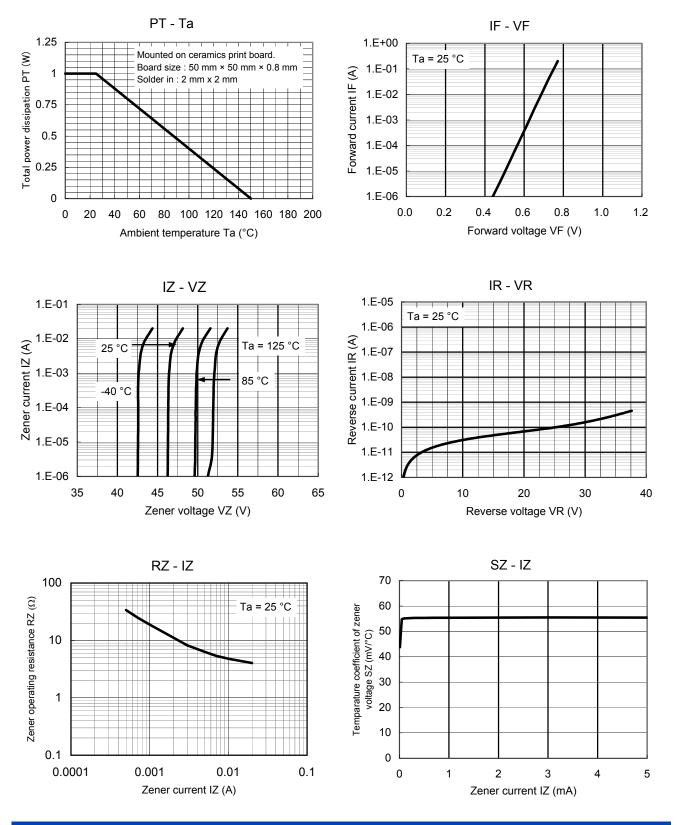


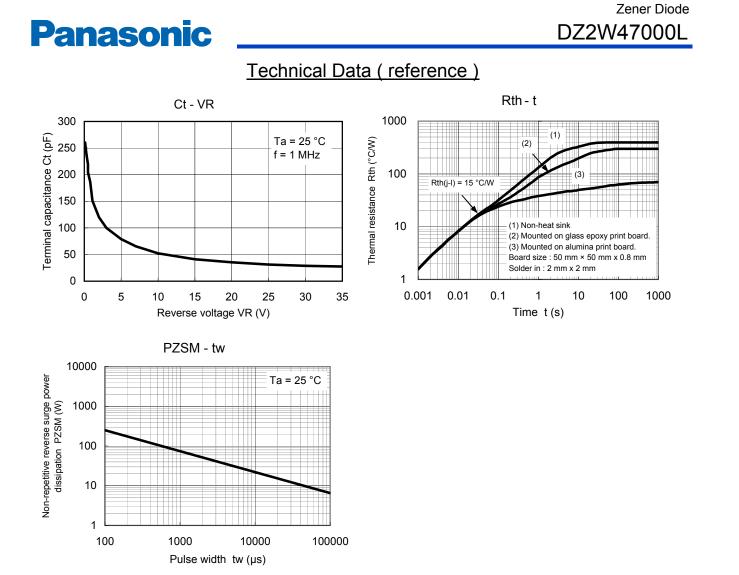


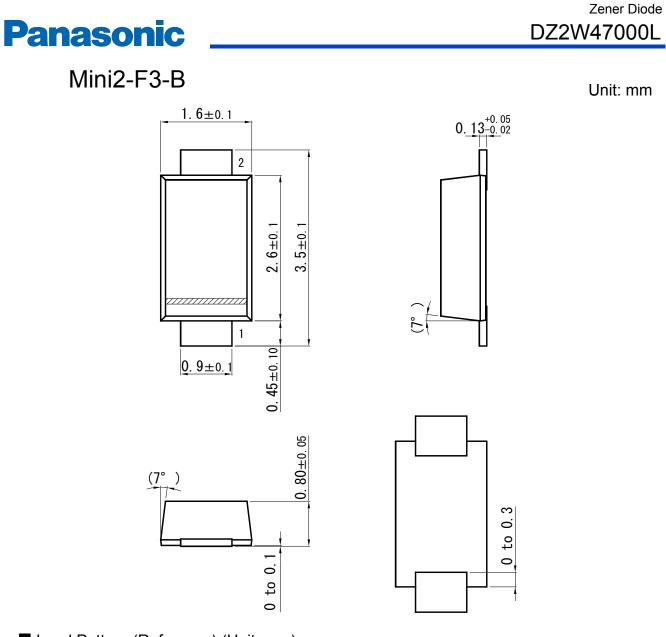


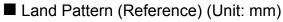
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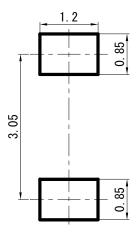
Technical Data (reference)











Established : 2011-01-28 Revised : 2013-05-08

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