

Zener Diode DZ2W43000L

### DZ2W43000L Silicon epitaxial planar type

# For constant voltage / For surge absorption circuit DZ24430 in Mini2 type package

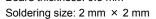
#### Features

- · 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: MG

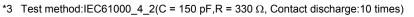
#### Packaging

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 <sup>*1</sup>	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 bo	ard.		
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 <sup>*1, *2</sup>	VZ	IZ = 5 mA	40.85	43.00	45.15	V
Zener operating resistance	RZ	IZ = 5 mA			65	Ω
Reverse current	IR	VR = 35.8 V			10	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		49		mV/°C

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

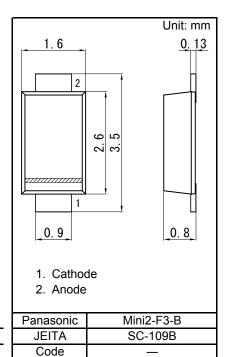
2. Absolute frequency of input and output is 5 MHz.

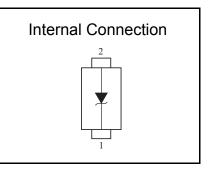
3. \*1 The temperature must be controlled 25°C for VZ mesurement.

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

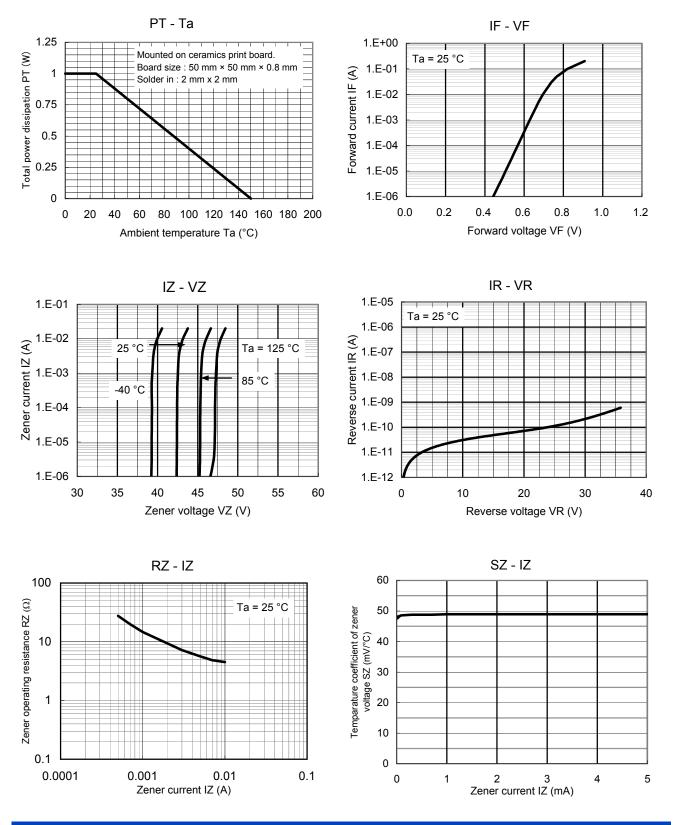






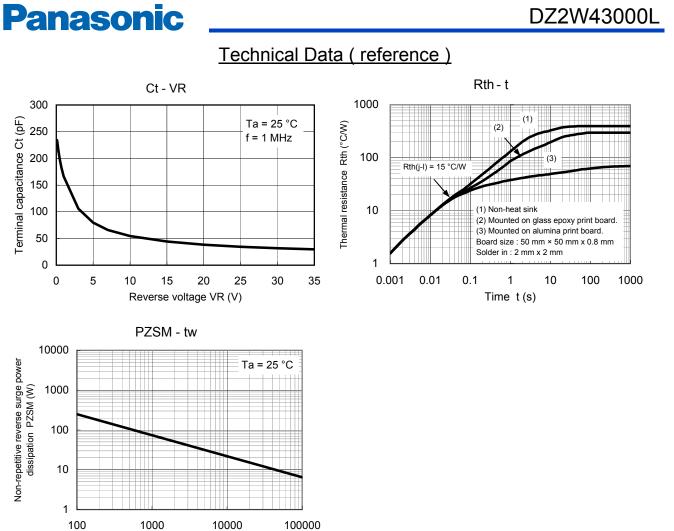
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### Technical Data (reference)

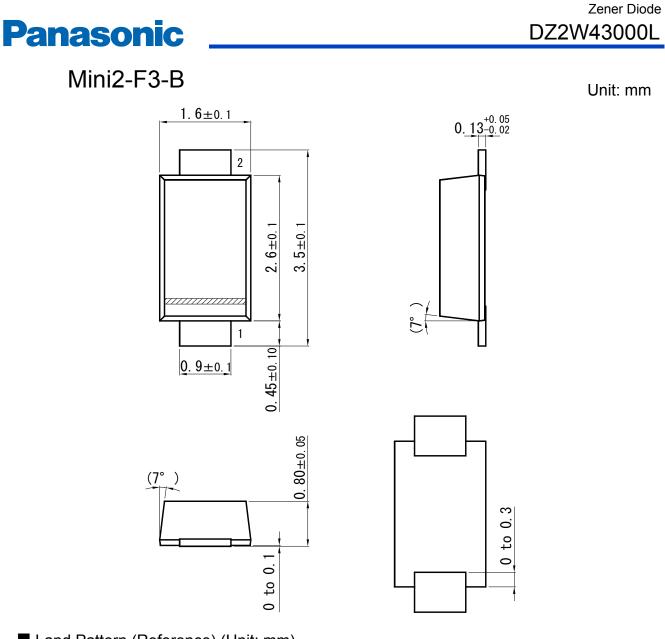


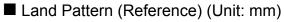
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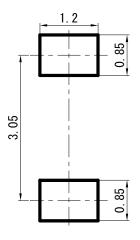
Established : 2010-10-13 Revised : 2013-05-08



Pulse width tw (µs)







Established : 2010-10-13 Revised : 2013-05-08

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