Zener Diode

DZ2J140×0L

Panasonic

DZ2J140×0L

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

■ 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: TJ or TU

■ Packaging

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

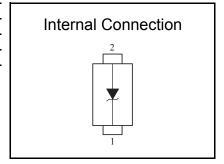
■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit				
Repetitive peak forward current	IFRM	200	mA				
Total power dissipation *1	PT	200	mW				
Electrostatic discharge *2	ESD	±8	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 glass epoxy print board ($45 \text{ mm} \times 45 \text{ mm} \times 1 \text{ mm}$) Solder in (Recommended land pattern)

*2 Test method : IEC61000_4_2

(C = 150 pF, R = 330 $\Omega,$ Contact discharge : 10 times)



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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage *1, *2	VZ	IZ = 5 mA	13.30		14.70	V
Zener operating resistance	RZ	IZ = 5 mA			40	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			80	Ω
Reverse current	IR	VR = 10 V			0.05	μΑ
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		11.6		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

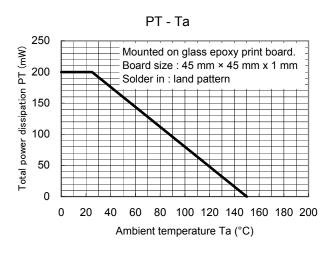
Rank classification

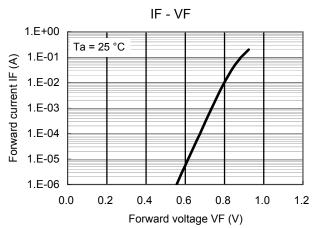
Code		M	0				
Rank		M	No-rank				
VZ	13.65	to 14.35	13.30	to 14.70			
Marking symbol		TU	TJ				

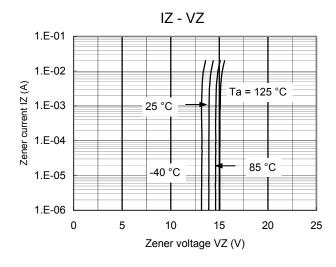
Zener Diode

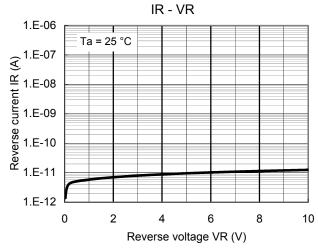
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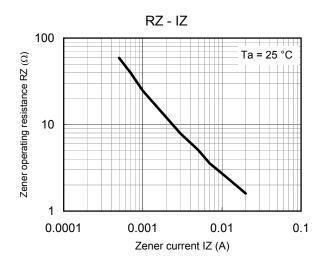
Technical Data (reference)

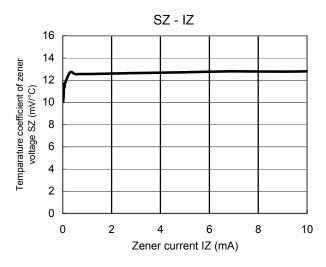










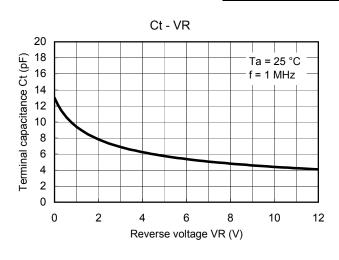


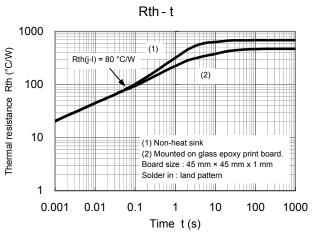
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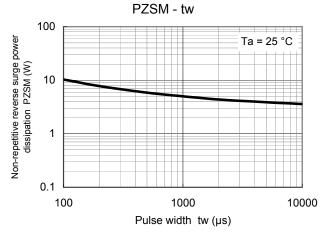
Zener Diode

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Technical Data (reference)







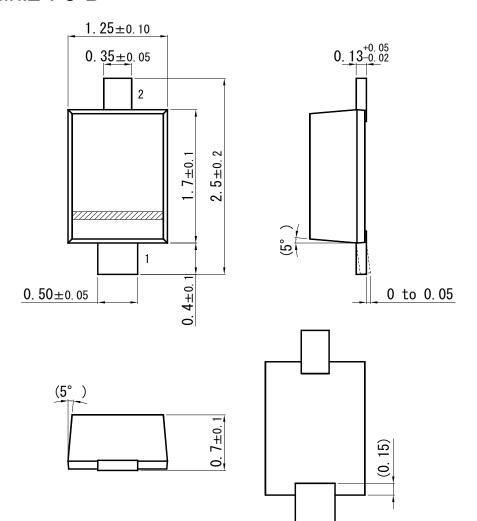
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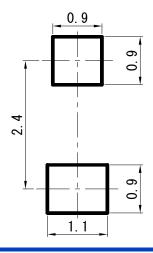
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SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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