

DZ3X056D0L Silicon epitaxial planar type

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:0W

Packaging

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

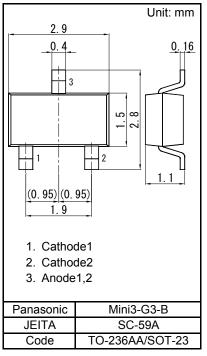
■ Absolute Maximum Ratings Ta = 25 °C

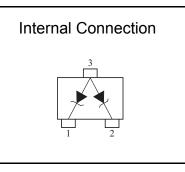
Parameter	Symbol	Rating	Unit
Total power dissipation ^{*1}	PT	200	mW
Electrostatic discharge *2	ESD	±10	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note) *1: Mounted on glass epoxy print board. (45 mm x 45 mm x 1 mm) (2 Diode total)

Solder in (1.0 mm x 1.0 mm)

*2: Test method:IEC61000_4_2(C = 150 pF,R = 330 Ω, Contact discharge:10 times)





Electrical Characteristics Ta = $25 \circ C \pm 3 \circ C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage ^{*1, *2}	VZ	IZ = 5 mA	5.32		5.88	V
Zener operating resistance	RZ	IZ = 5 mA			40	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			200	Ω
Reverse current	IR	VR = 2.5 V			0.5	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		2.0		mV/°C

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

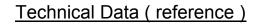
2. *1: The temperature must be controlled 25°C for VZ mesurement.

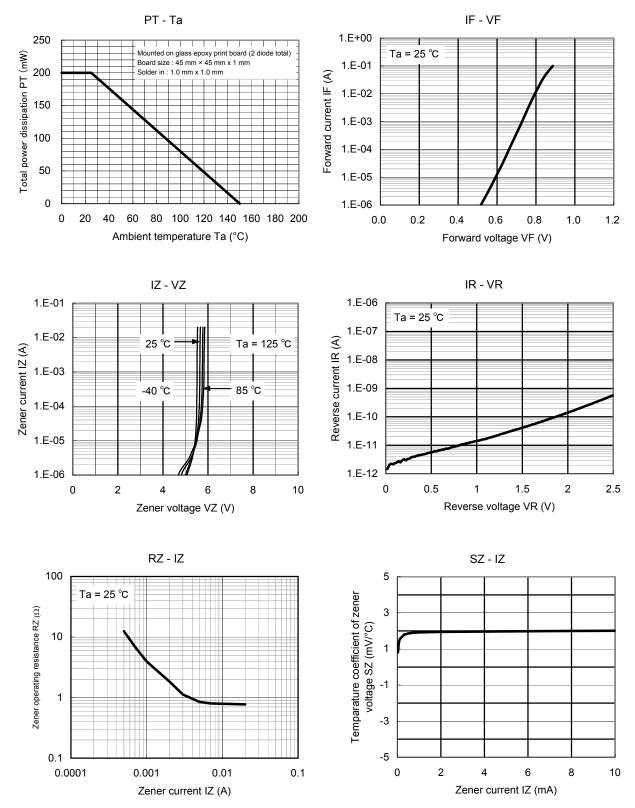
VZ value measured at other temperature must be adjusted to VZ (25°C)

*2: VZ guaranted 20 ms after current flow.

*3: Tj = 25°C to 150°C



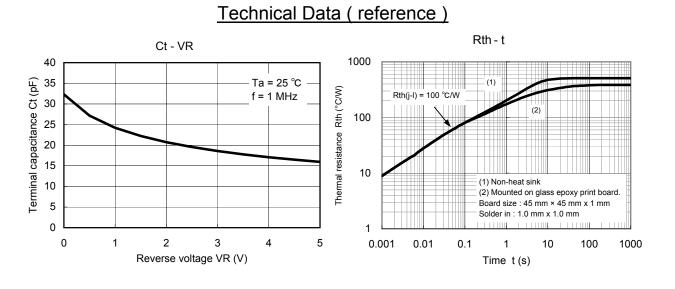


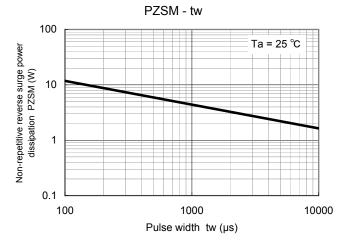


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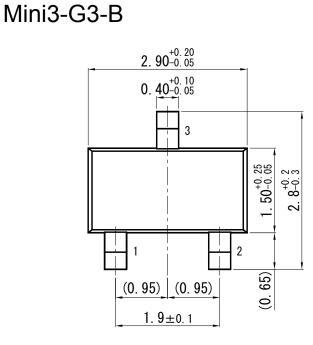


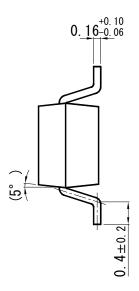


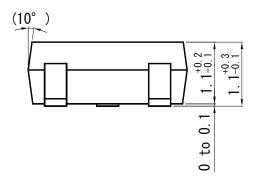




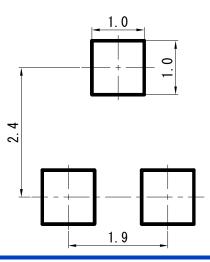
Unit: mm







Land Pattern (Reference) (Unit: mm)



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