

Zener Diode

## DZ3S068D0L 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:02

Packaging

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

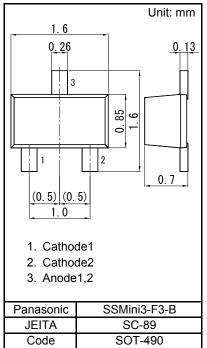
■ Absolute Maximum Ratings Ta = 25 °C

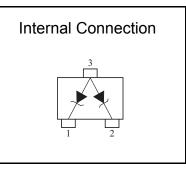
Parameter	Symbol	Rating	Unit	
Total power dissipation <sup>*1</sup>	PT	150	mW	
Electrostatic discharge *2	ESD	±10	kV	
Junction temperature	Tj	150	°C	
Operating ambient temperature	Topr	-40 to +85	°C	
Storage temperature	Tstq	-55 to +150	°C	

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

Solder in (0.6 mm x 0.6 mm)

\*2: Test method:IEC61000\_4\_2(C = 150 pF,R = 330 Ω, Contact discharge:10 times)





■ Electrical Characteristics Ta = 25 °C	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	6.46		7.14	V
Zener operating resistance	RZ	IZ = 5 mA			30	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			60	Ω
Reverse current	IR	VR = 4 V			0.1	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		3.1		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)

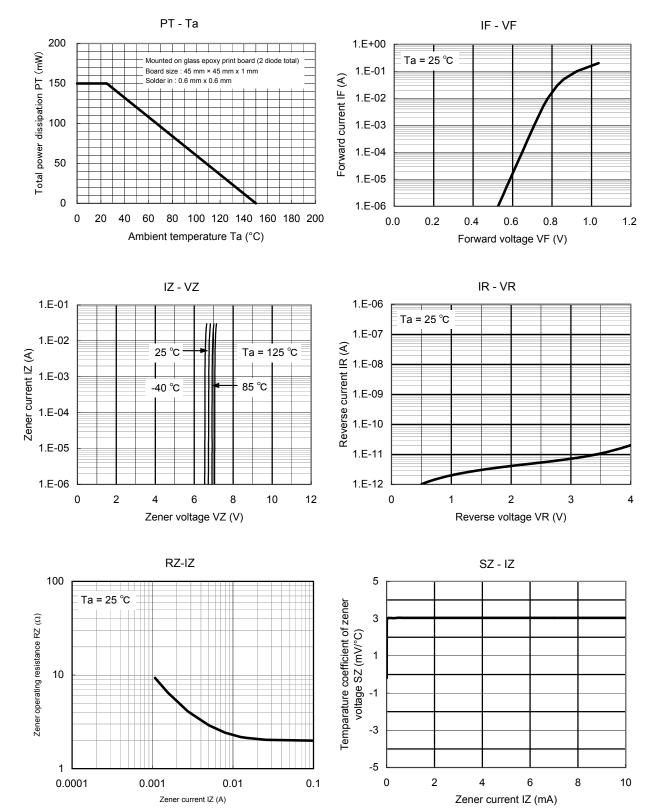
\*2: VZ guaranted 20 ms after current flow.

\*3: Tj = 25°C to 150°C



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## Technical Data (reference)

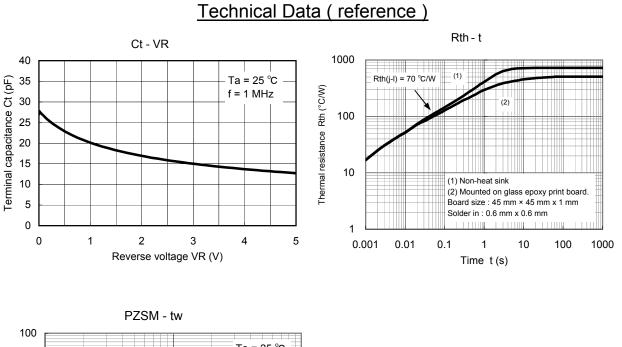


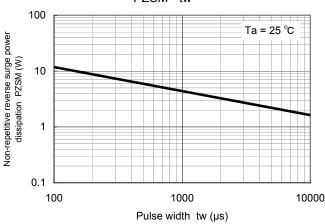
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Established : 2010-05-17 Revised : 2013-10-22



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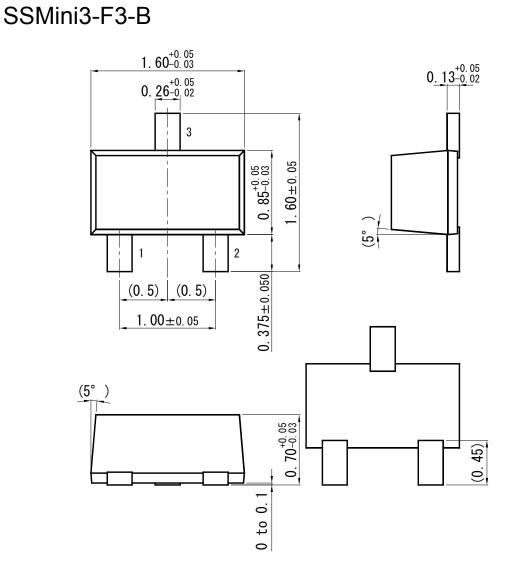




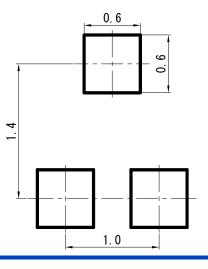


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Unit: mm



Land Pattern (Reference) (Unit: mm)



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