

**DZ2S180C0L**

Silicon epitaxial planar type

For ESD protection  
 Bi-directional type

■ Features

- High ESD
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant  
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: YH

■ Packaging

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

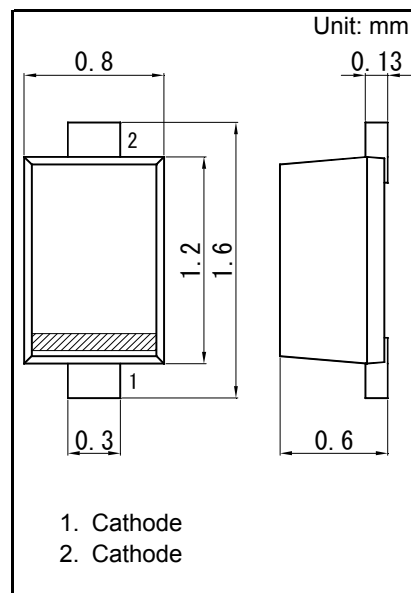
■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Total power dissipation <sup>*1</sup>	PT	150	mW
Electrostatic discharge <sup>*2</sup>	ESD	±15	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

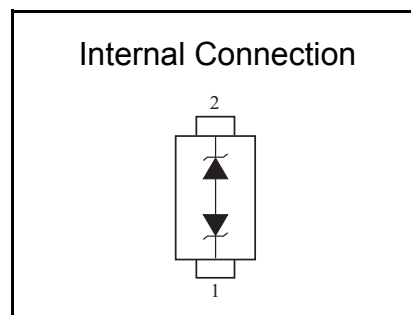
Note) \*1 Mounted on glass epoxy print board ( 45 mm × 45 mm × 1 mm )  
 Solder in ( 0.8 mm × 0.6 mm )

\*2 Test method : IEC61000\_4\_2

( C = 150 pF, R = 330 Ω, Contact discharge : 10 times )



Panasonic	SSMini2-F5-B
JEITA	SC-79
Code	SOD-523



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Zener voltage <sup>*1, *2</sup>	VZ	IZ = 5 mA	17.5		20.0	V
Zener operating resistance	RZ	IZ = 5 mA			60	Ω
Reverse current	IR	VR = 13 V			15	nA
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz		5		pF
Temperature coefficient of zener voltage <sup>*3</sup>	SZ	IZ = 5 mA		14		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 measurement.

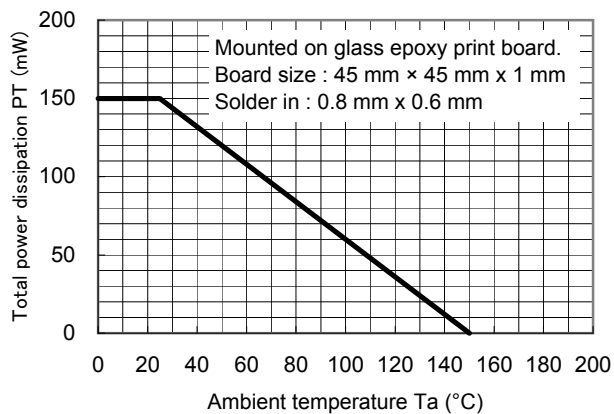
VZ value measured at other temperature must be adjusted to VZ (25 °C).

\*2 VZ guaranteed 20 ms after current flow

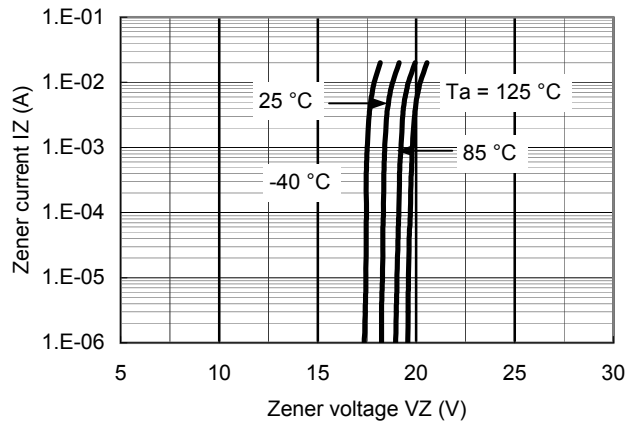
\*3 Tj = 25 °C to 150 °C

Technical Data ( reference )

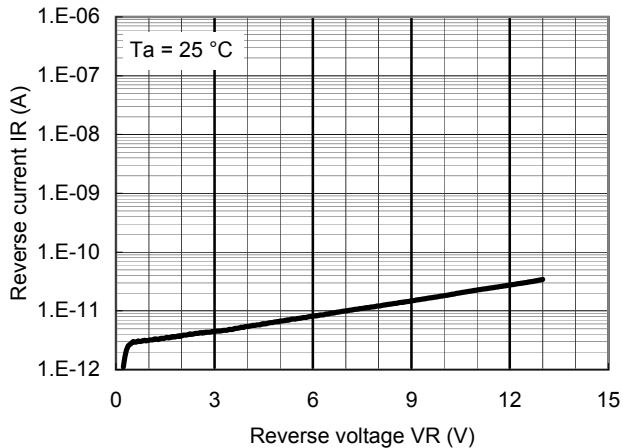
PT - Ta



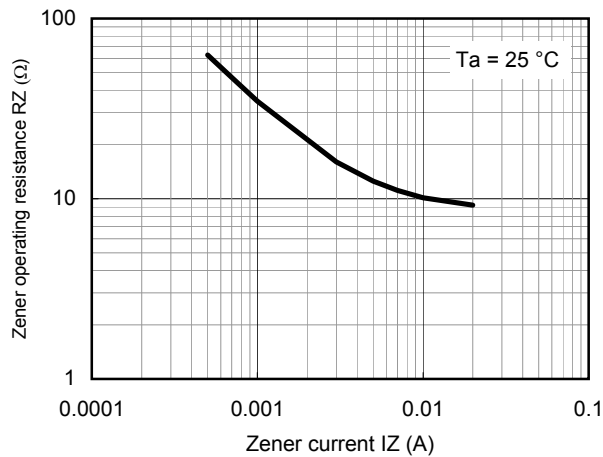
IZ - VZ



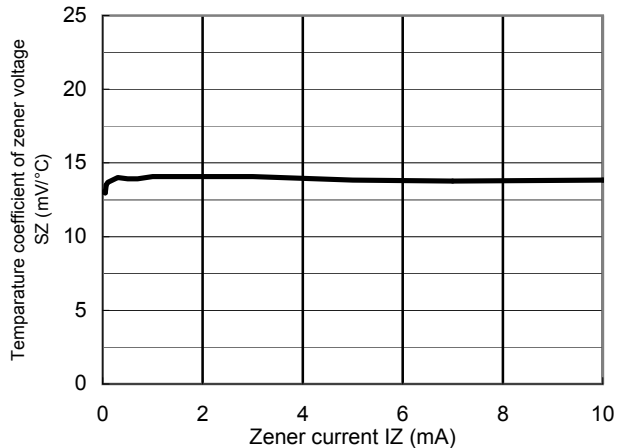
IR - VR



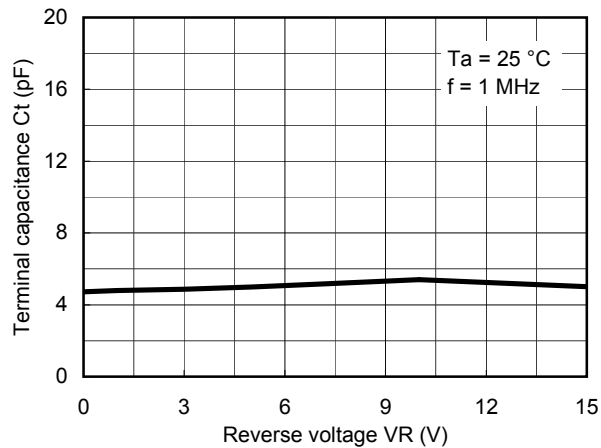
RZ - IZ



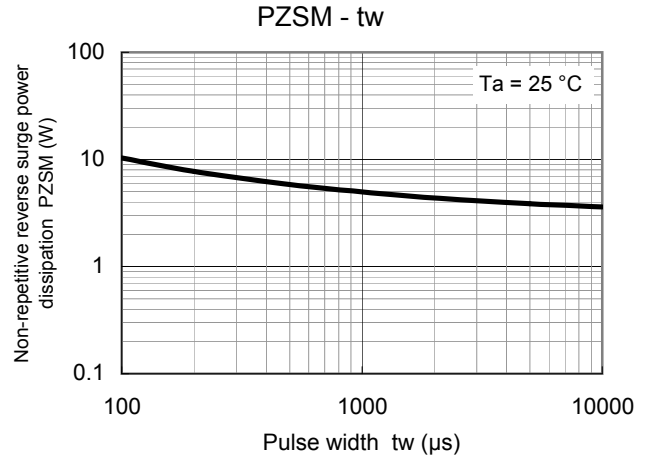
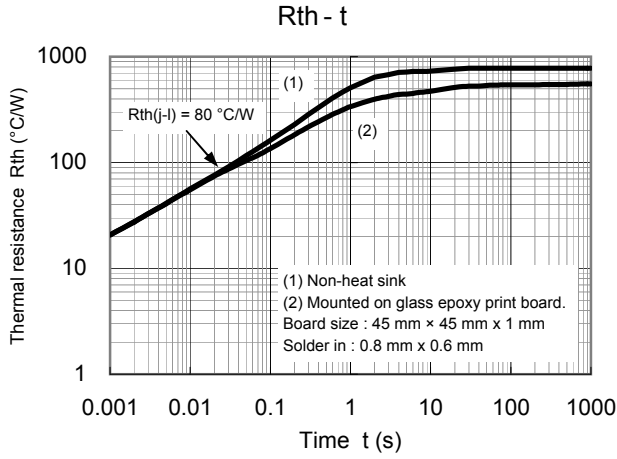
SZ - IZ



Ct - VR



Technical Data ( reference )

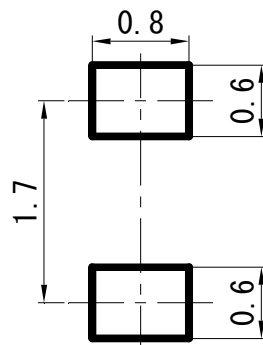


SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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