Revision. 3

Zener Diode

DZ2S180C0L

Panasonic

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)

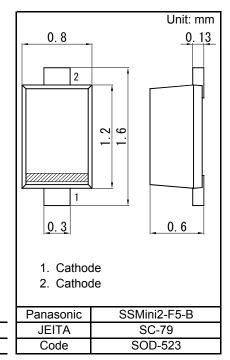
■ Absolute Maximum Ratings Ta = 25 °C

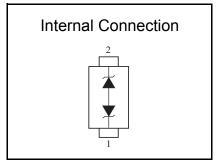
Parameter	Symbol	Rating	Unit
Total power dissipation *1	PT	150	mW
Electrostatic discharge *2	ESD	±15	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note) *1 Mounted on glass epoxy print board ($45 \text{ mm} \times 45 \text{ mm} \times 1 \text{ mm}$) Solder in ($0.8 \text{ mm} \times 0.6 \text{ mm}$)

*2 Test method : IEC61000_4_2

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





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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Zener voltage *1, *2	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 *3	SZ	IZ = 5 mA		14		mV/°C

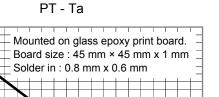
- lote) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.
 - *1 The temperature must be controlled 25 °C for VZ mesurement.
 VZ value measured at other temperature must be adjusted to VZ (25 °C).
 - *2 VZ guaranted 20 ms after current flow
 - *3 Tj = 25 °C to 150 °C

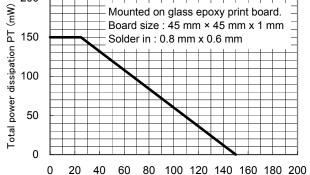
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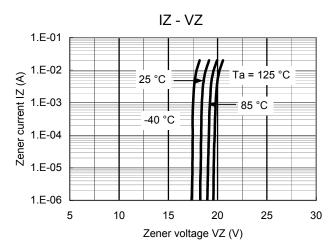
Zener Diode DZ2S180C0L

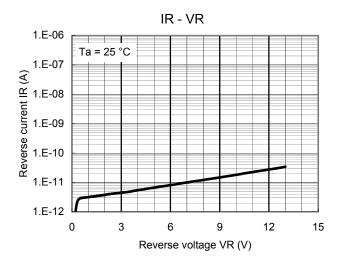
Technical Data (reference)

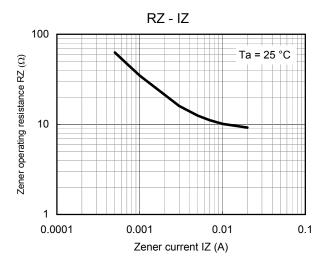


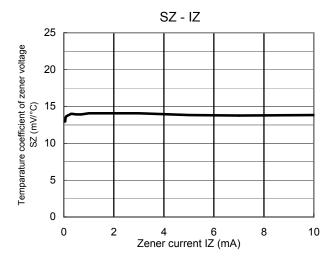


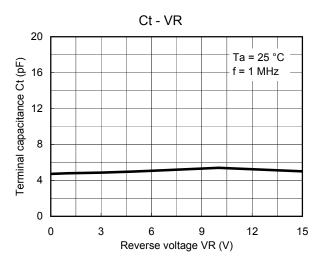
Ambient temperature Ta (°C)











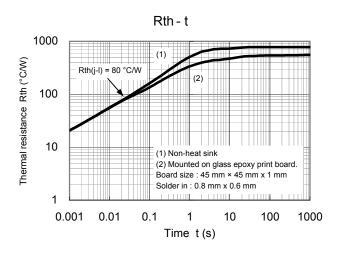
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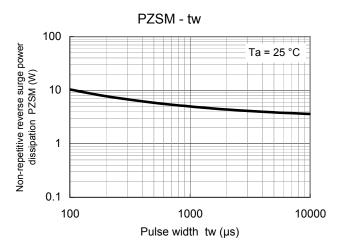
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Technical Data (reference)





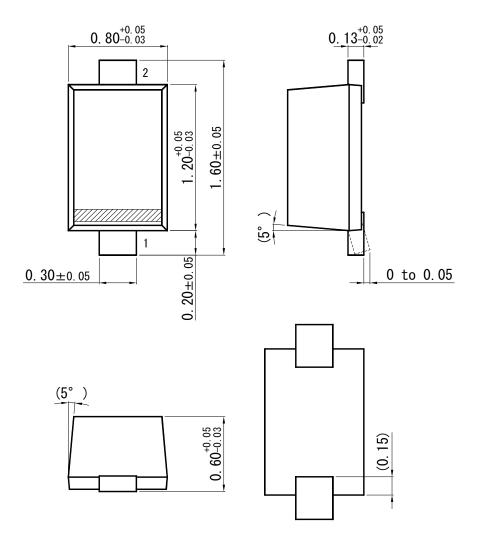
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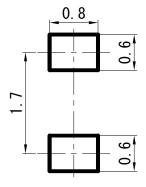
DZ2S180C0L

SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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