Panasonic

Zener Diode DZ2S180×0L

DZ2S180×0L Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ2J180 in SSMini2 type package

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: YJ or YU

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	150	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	С°		

 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)



*3 Tj = 25 °C to 150 °C

\blacksquare Electrical Characteristics Ta = 25 °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	17.10		18.90	V
Zener operating resistance	RZ	IZ = 5 mA			60	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			80	Ω
Reverse current	IR	VR = 13 V			0.05	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		17.2		mV/°C

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

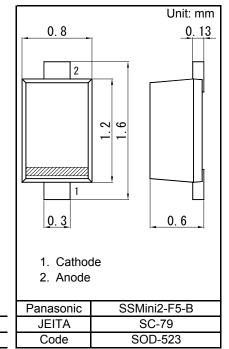
2. Absolute frequency of input and output is 5 MHz.

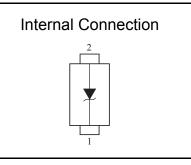
3. *1 The temperature must be controlled 25 $^\circ\text{C}$ for VZ mesurement.

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

*2 VZ guaranted 20 ms after current flow Rank classification

Code	М		0				
Rank	М			No-rank			
VZ	17.55	to	18.45	17.10	to	18.90	
Marking symbol		YU			ΥJ		

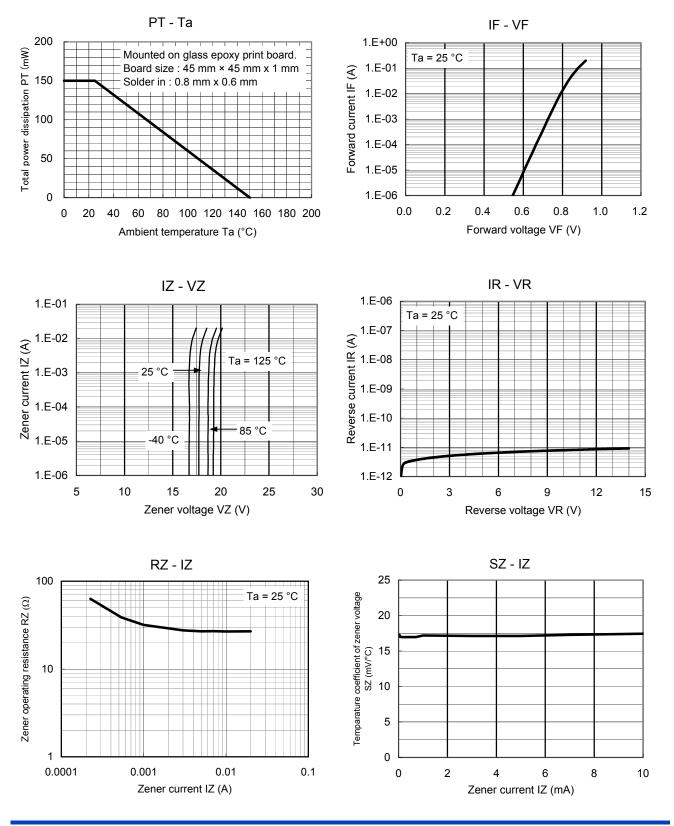






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Technical Data (reference)



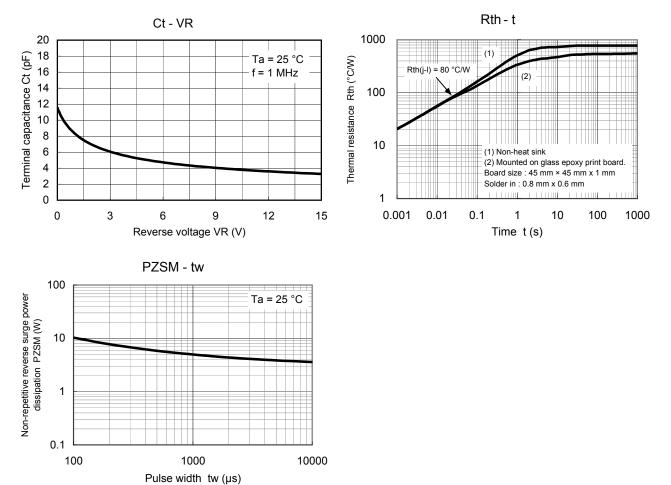
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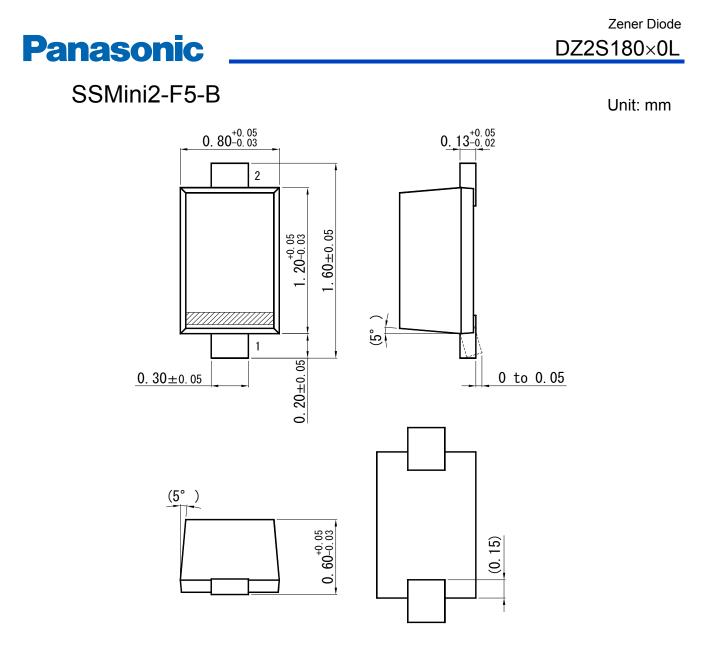




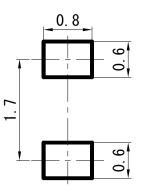
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Land Pattern (Reference) (Unit: mm)



Established : 2009-11-12 Revised : 2013-07-24

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