Panasonic

Zener Diode DZ2S036×0L

DZ2S036×0L Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ2J036 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: 6J or 6U

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	±15	kV		
Junction temperature	Tj	150	°C		
Operating ambient temperature	Topr	-40 to +85	°C		
Storage temperature	Tstg	-55 to +150	°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)
 Solder in (0.8 mm × 0.6 mm)

*2 Test method : IEC61000_4_2

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



Electrical characteristics $Ta = 25 \degree C \pm 3 \degree C$						
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage ^{*1, *2}	VZ	IZ = 5 mA	3.42		3.78	V
Zener operating resistance	RZ	IZ = 5 mA			130	Ω
Reverse current	IR	VR = 1 V			10	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		-1.7		mV/°C

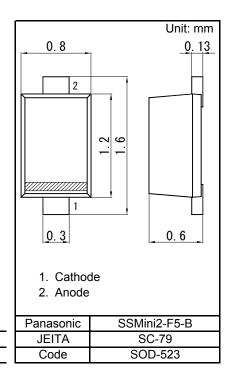
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

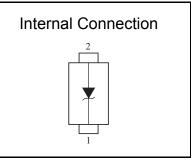
2. Absolute frequency of input and output is 5 MHz.

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 $^\circ\text{C}).$

*2	VZ guaranted 20 ms after current flow	Rank	classification						
*3	Tj = 25 °C to 150 °C	_	Code	Code M Rank M		0			
		-	Rank			No-rank			
		-	VZ	3.51	to	3.69	3.42	to	3.78
		Ī	Marking symbol	6U		6J			

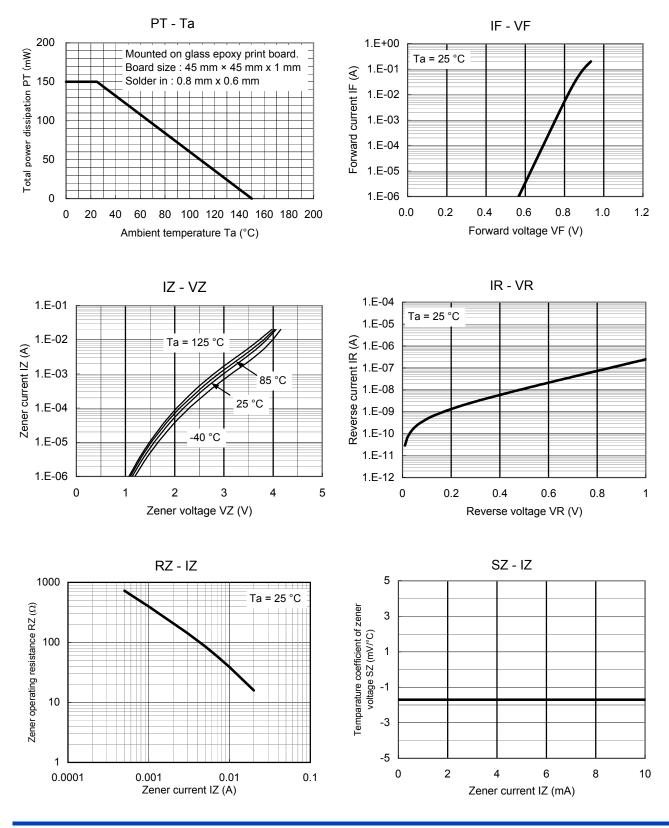






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Technical Data (reference)



Established : 2009-11-09 Revised : 2013-07-22 80

70

60

50 40 30

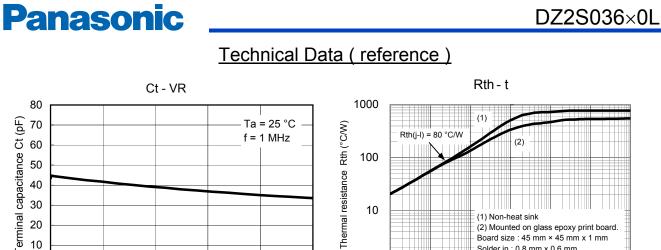
20

10

0 0

0.2

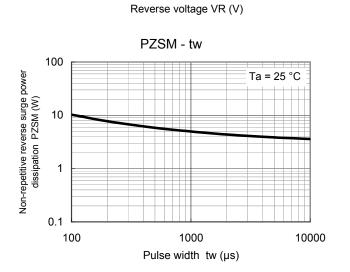
Terminal capacitance Ct (pF)



1

0.001

0.01



0.4

0.6

0.8

1



1000

Solder in : 0.8 mm x 0.6 mm

10

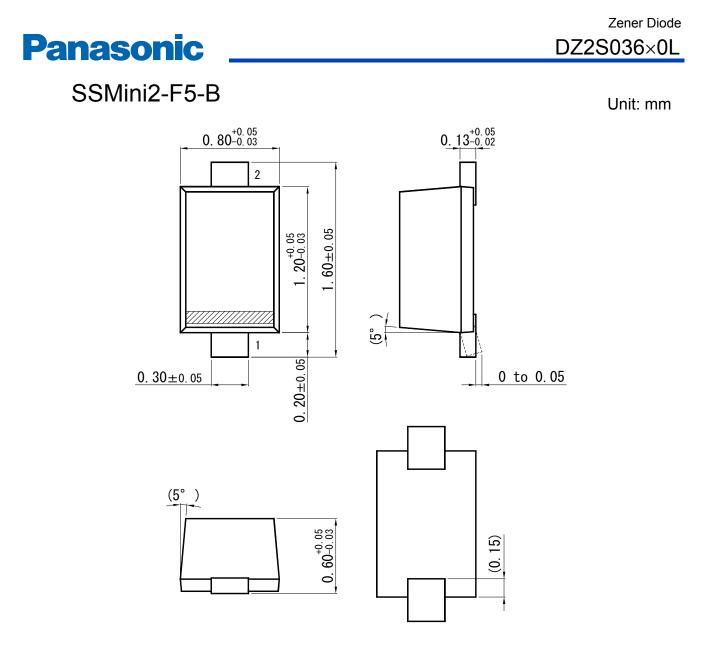
100

1

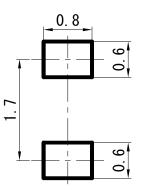
Time t (s)

0.1

Zener Diode



Land Pattern (Reference) (Unit: mm)



Established : 2009-11-09 Revised : 2013-07-22

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