



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  $I_Z$
- Low zener operating resistance  $R_Z$
- 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 $T_a = 25^\circ\text{C}$

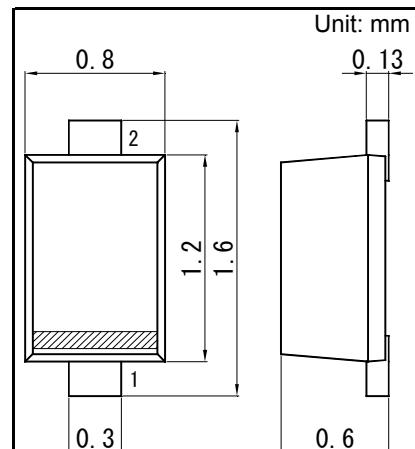
Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation <sup>*1</sup>	PT	150	mW
Electrostatic discharge <sup>*2</sup>	ESD	$\pm 15$	kV
Junction temperature	T <sub>j</sub>	150	°C
Operating ambient temperature	T <sub>opr</sub>	-40 to +85	°C
Storage temperature	T <sub>stg</sub>	-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

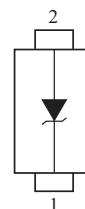
( C = 150 pF, R = 330 Ω, Contact discharge : 10 times )



1. Cathode
2. Anode

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

### Internal Connection



### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage <sup>*1, *2</sup>	VZ	$I_Z = 5 \text{ mA}$	3.42		3.78	V
Zener operating resistance	RZ	$I_Z = 5 \text{ mA}$			130	Ω
Reverse current	IR	$VR = 1 \text{ V}$			10	μA
Temperature coefficient of zener voltage <sup>*3</sup>	SZ	$I_Z = 5 \text{ mA}$			-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 measurement.

VZ value measured at other temperature must be adjusted to VZ ( $25^\circ\text{C}$ ).

\*2 VZ guaranteed 20 ms after current flow

\*3  $T_j = 25^\circ\text{C}$  to  $150^\circ\text{C}$

### Rank classification

Code	M	0
Rank	M	No-rank
VZ	3.51 to 3.69	3.42 to 3.78
Marking symbol	6U	6J

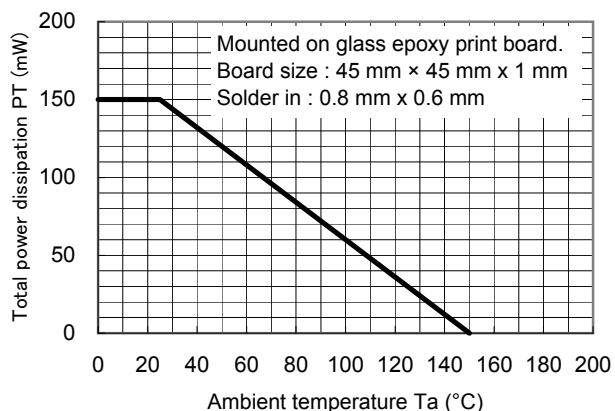


Zener Diode

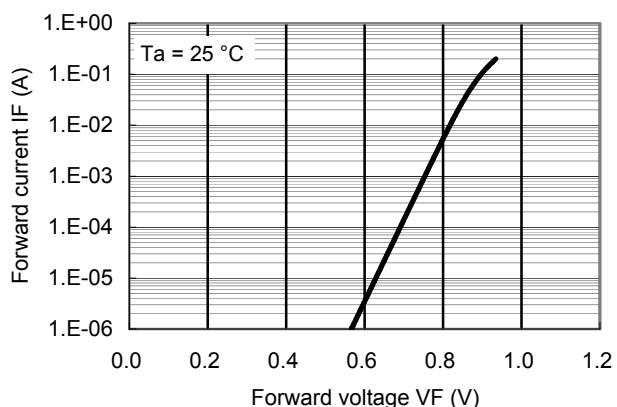
DZ2S036x0L

### Technical Data ( reference )

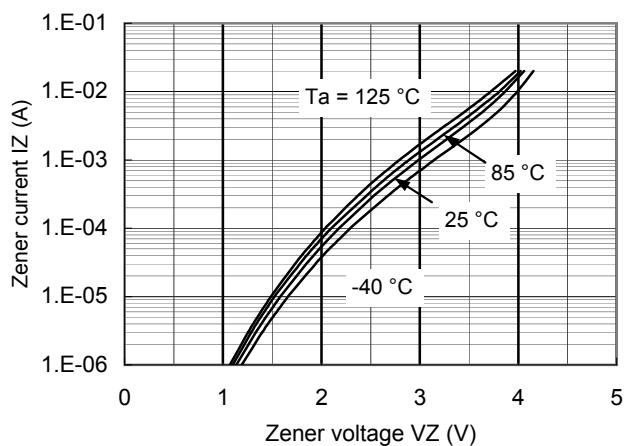
PT - Ta



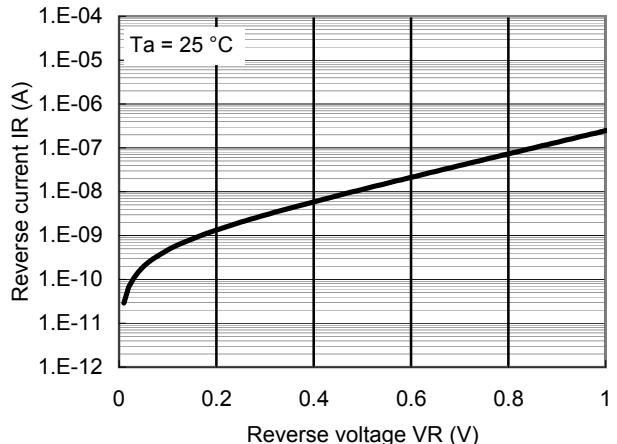
IF - VF



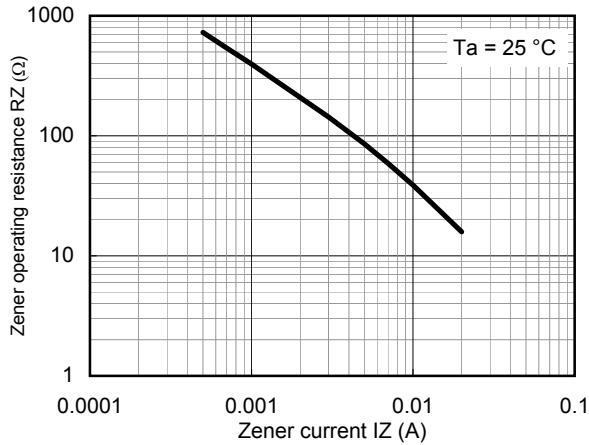
IZ - VZ



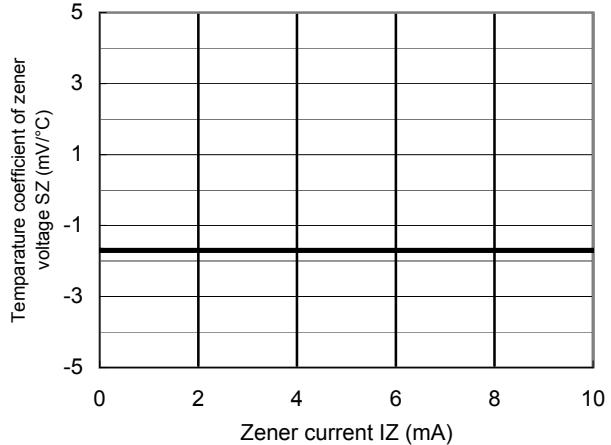
IR - VR



RZ - IZ



SZ - IZ



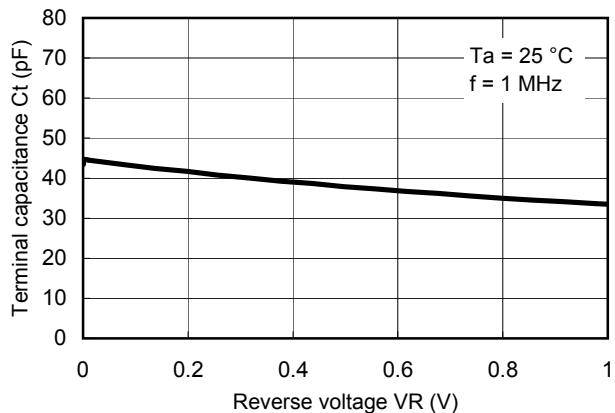


Zener Diode

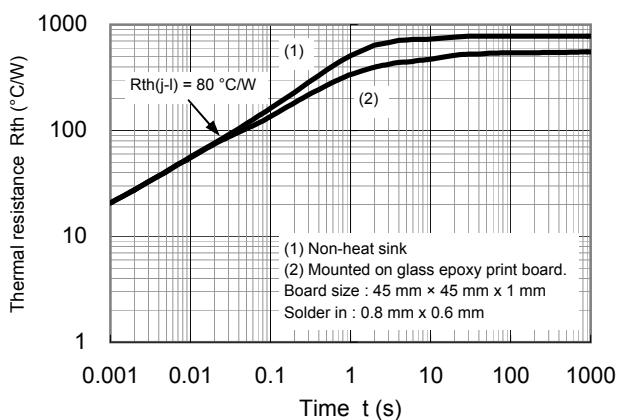
DZ2S036x0L

### Technical Data ( reference )

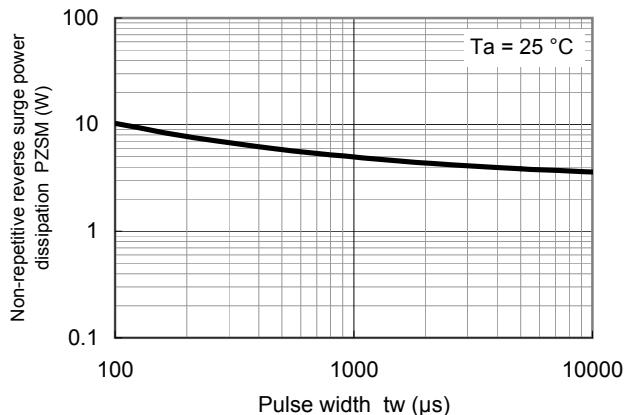
Ct - VR



Rth - t



PZSM - tw

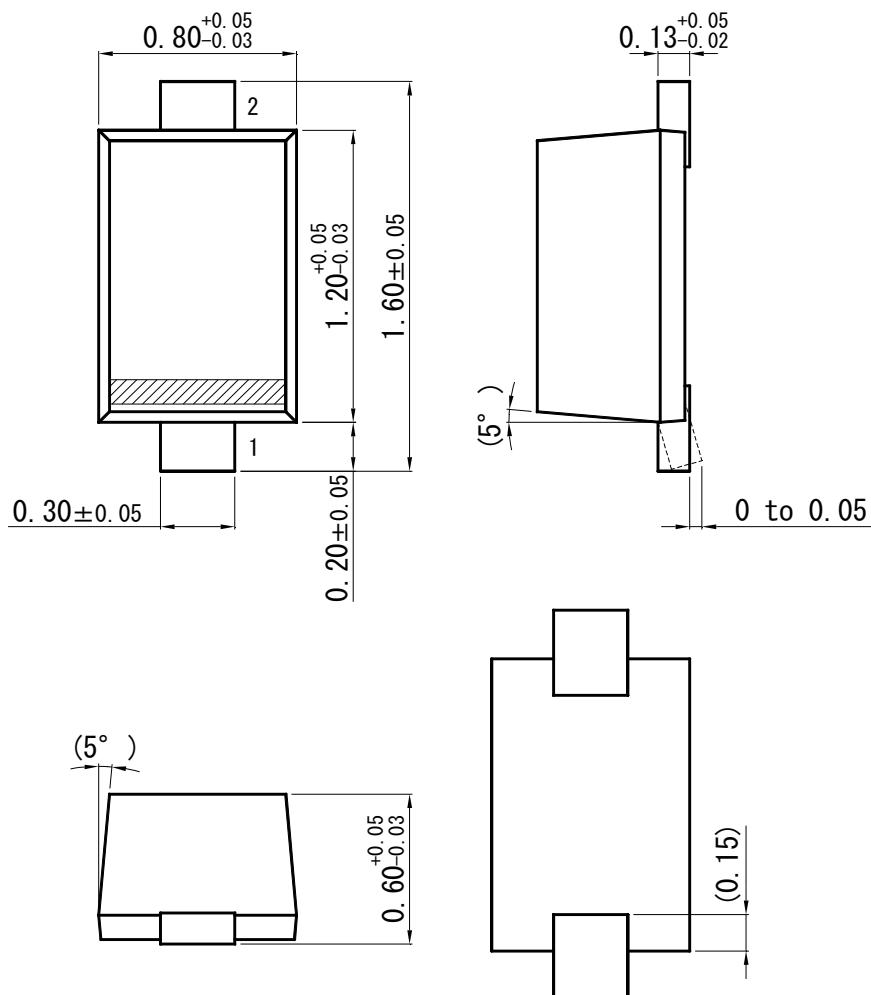


**Panasonic**

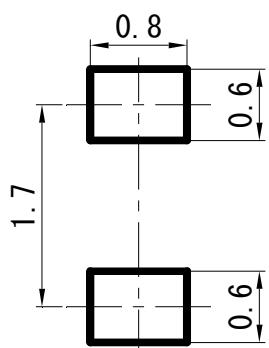
Zener Diode  
**DZ2S036×0L**

**SSMini2-F5-B**

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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