Zener Diode

#### DD2S06200L

# **Panasonic**

## DD2S06200L

### Silicon epitaxial planar type

For surge absorption circuit

#### ■ Features

- · Low terminal capacitance Ct
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: F1

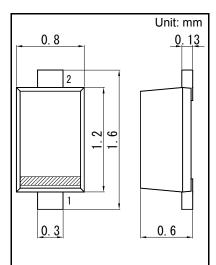
#### ■ Packaging

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

#### ■ Absolute Maximum Ratings Ta = 25 °C

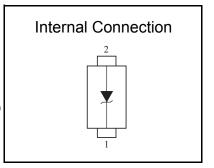
Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation *1	PT	150	mW
Electrostatic discharge *2	ESD	±15	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

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



- 1. Cathode
- 2. Anode

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



#### ■ Electrical Characteristics Ta = 25 °C ± 3 °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	5.90		6.50	V
Zener operating resistance	RZ	IZ = 5 mA			30	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			100	Ω
Reverse current	IR	VR = 5.5 V			3	μΑ
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		2.5		mV/°C
Terminal Capacitance	Ct	VR = 0 V, f = 1 MHz		10		pF

- 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 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

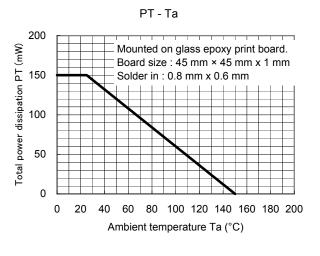
Established: 2012-02-10 Revised: 2013-11-01

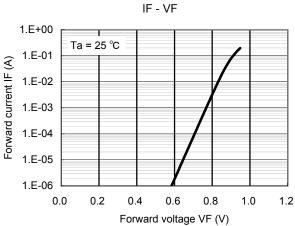
<sup>\*2:</sup> Test method:IEC61000 4 2(C = 150 pF,R = 330  $\Omega$ , Contact discharge:10 times)

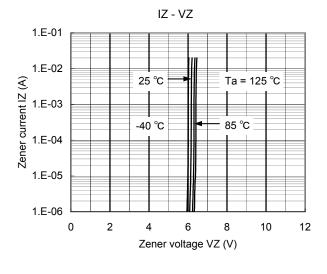
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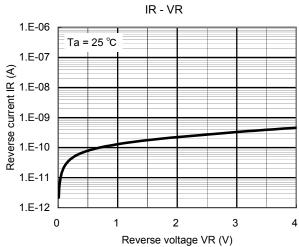
### DD2S06200L

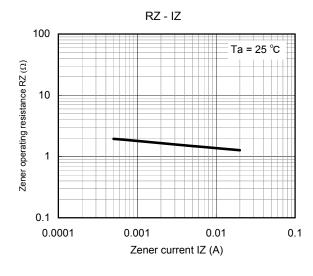
## Technical Data (reference)

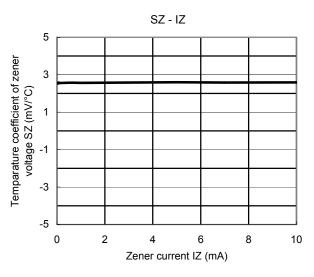












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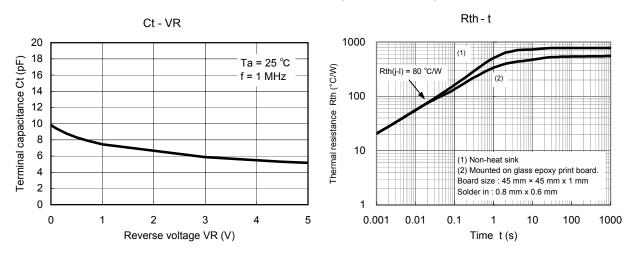
Revision. 4

**Panasonic** 

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### DD2S06200L

## Technical Data (reference)



Established: 2012-02-10 Revised: 2013-11-01

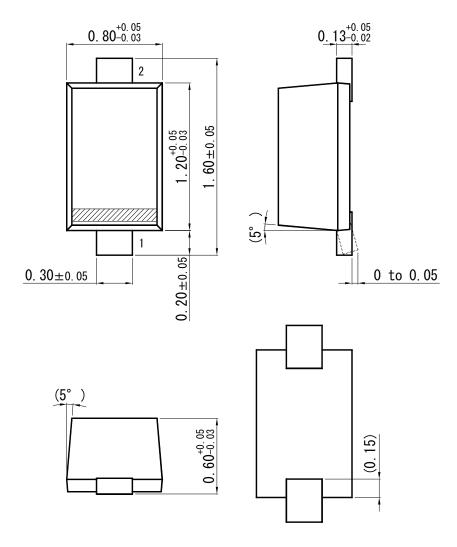
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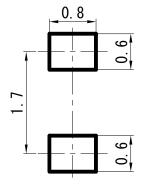
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## SSMini2-F5-B

Unit: mm



#### ■ Land Pattern (Reference) (Unit: mm)



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