



Zener Diode  
DD5X062J0R

## DD5X062J0R

Silicon epitaxial planar type

For surge absorption circuit

DD3X062J in Mini5 type package

### ■ Features

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

### ■ Marking Symbol: 51

### ■ Basic Part Number :

Quad. DD2S062 (Common anode)

### ■ Packaging

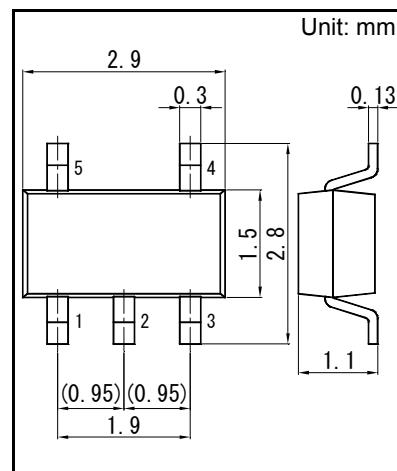
Embossed type (Thermo-compression sealing) 3 000 pcs / reel (standard)

### ■ 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	200	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: PT = 200mW achieved with a printed circuit board. (4 Diode total)

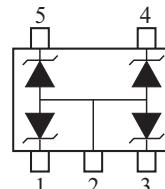
\*2: Test method:IEC61000\_4\_2(C = 150 pF, R = 330 Ω, Contact discharge:10 times)



1. Cathode1 4. Cathode3  
2. Anode1,2,3,4 5. Cathode2  
3. Cathode2

Panasonic	Mini5-G3-B
JEITA	SC-74A
Code	MO-178

### 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	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	μA
Temperature coefficient of zener voltage <sup>*3</sup>	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 measurement.

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

\*2: VZ guaranteed 20 ms after current flow.

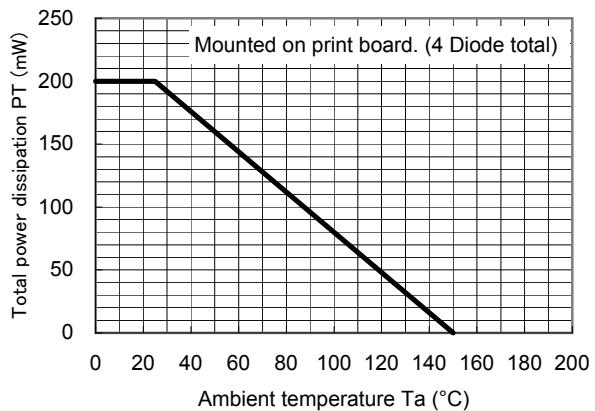
\*3: T<sub>j</sub> = 25°C to 150°C

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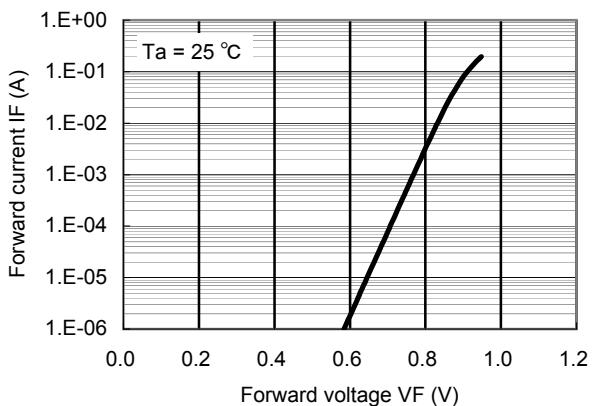
Zener Diode  
**DD5X062J0R**

Technical Data ( reference )

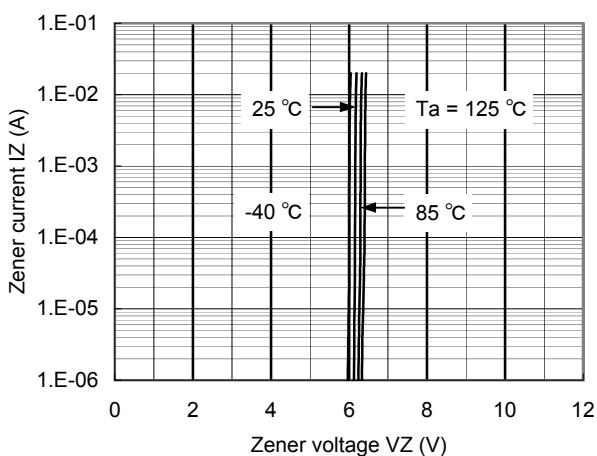
PT - Ta



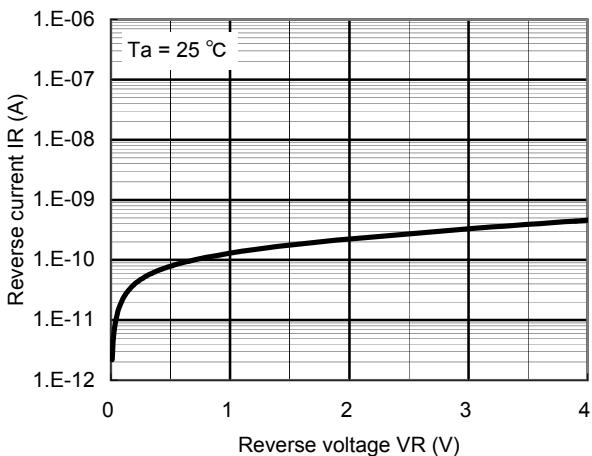
IF - VF



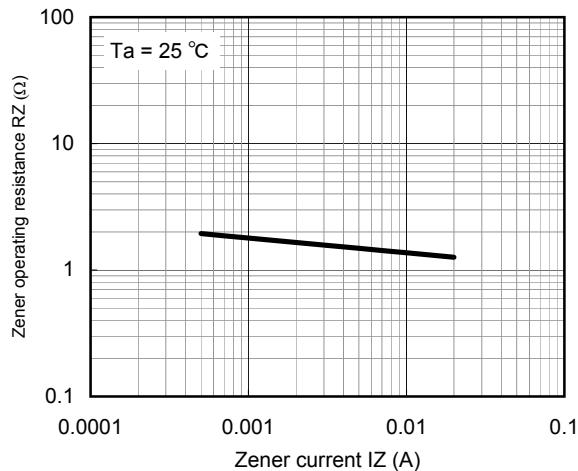
IZ - VZ



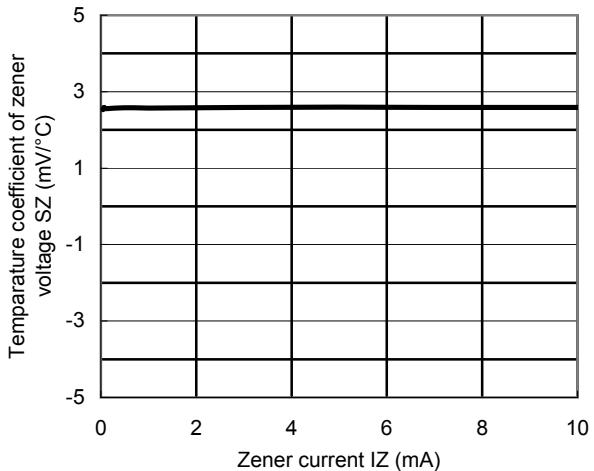
IR - VR



RZ-IZ



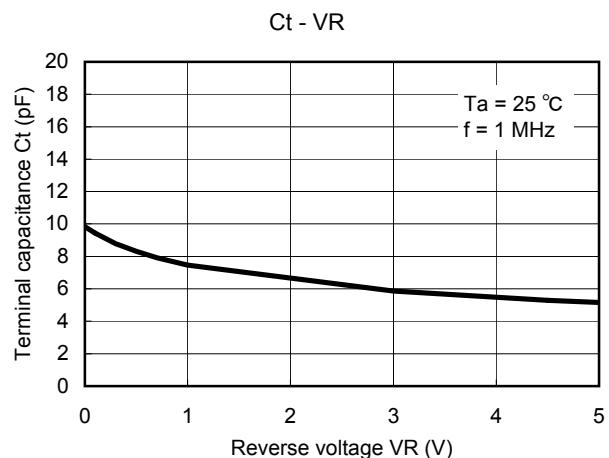
SZ - IZ



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Technical Data ( reference )

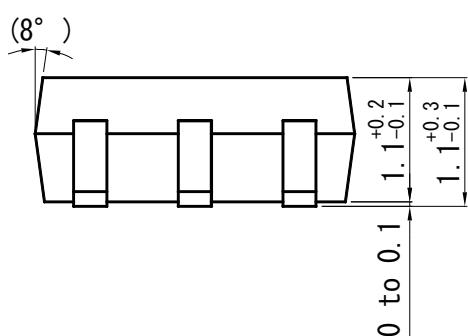
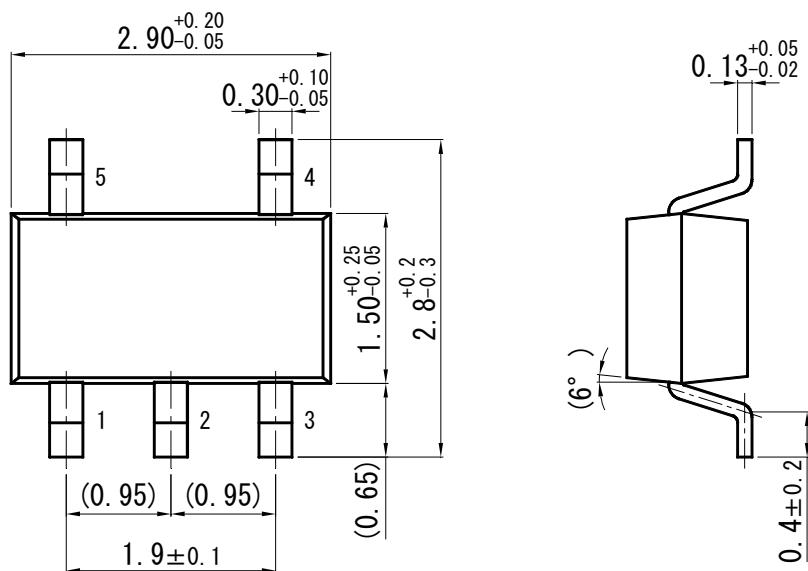


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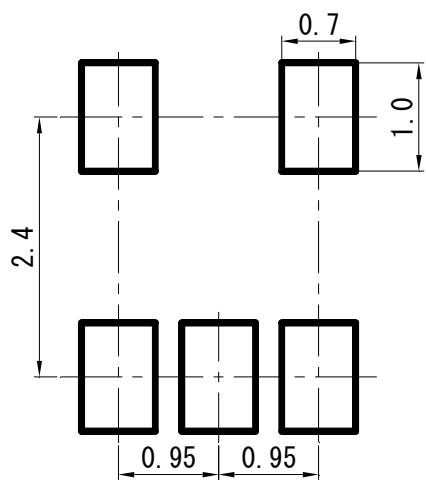
Zener Diode  
**DD5X062J0R**

**Mini5-G3-B**

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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