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Zener Diode

### DZ5X068D0R

# **Panasonic**

### DZ5X068D0R

### Silicon epitaxial planar type

For surge absorption circuit

### ■ 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:02
- Basic Part Number : Dual DZ3X068D (Common anode)

### ■ Packaging

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

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

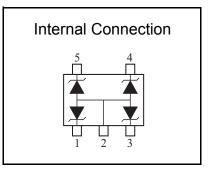
Parameter	Symbol	Rating	Unit	
Total power dissipation *1	PT	200	mW	
Electrostatic discharge *2	ESD	±10	kV	
Junction temperature	Tj	150	°C	
Operating ambient temperature	Topr	-40 to +85	°C	
Storage temperature	Tstg	-55 to +150	°C	

Note) \*1: Mounted on glass epoxy print board. ( 45 mm x 45 mm x 1 mm) (4Diode total)

Solder in ( 0.7 mm x 1.0 mm)

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

# Unit: mm 2. 9 0. 3 0. 13 (0. 95) (0. 95) 1. 9 1. Cathode1 2. Anode1,2,3,4 3. Cathode2 Panasonic Mini5-G3-B JEITA SC-74A



MO-178

Code

### ■ 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	6.46		7.14	V
Zener operating resistance	RZ	IZ = 5  mA			30	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			60	Ω
Reverse current	IR	VR = 4.0 V			0.1	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5  mA		3.1		mV/°C

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

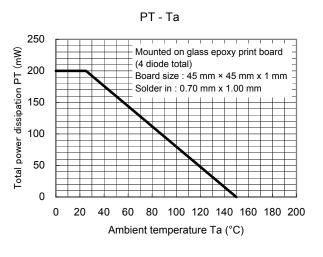
- \*1: The temperature must be controlled 25°C for VZ mesurement.
   VZ value measured at other temperature must be adjusted to VZ (25°C)
  - \*2: VZ guaranted 20 ms after current flow.
  - \*3: Tj = 25°C to 150°C

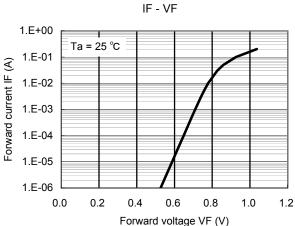
Established: 2010-08-05 Revised: 2013-10-28 **Panasonic** 

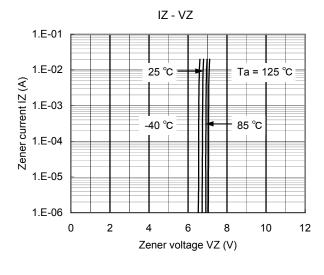
Zener Diode

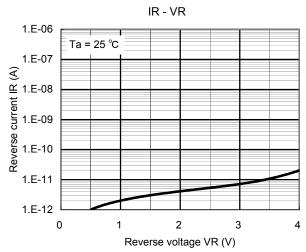
### DZ5X068D0R

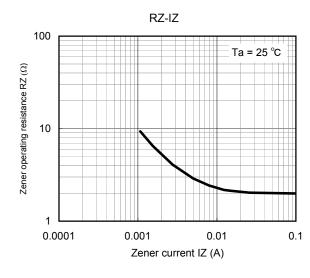
### Technical Data (reference)

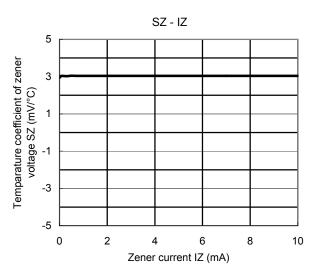












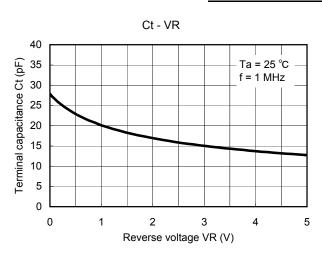
Established: 2010-08-05 Revised: 2013-10-28 Doc No. TT4-EA-12701 Revision. 4

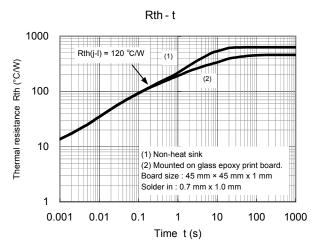
**Panasonic** 

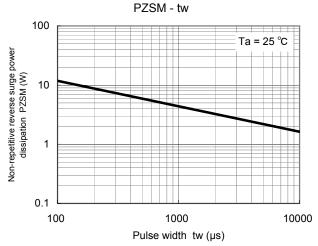
Zener Diode

### DZ5X068D0R

### Technical Data (reference)







Established: 2010-08-05

: 2013-10-28

Revised

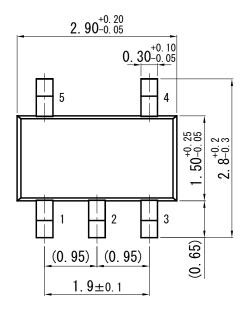
Zener Diode

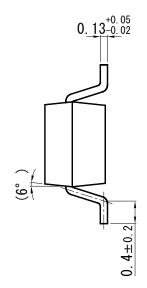
### DZ5X068D0R

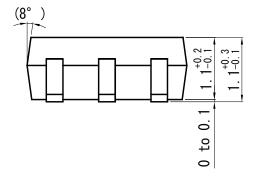
# **Panasonic**

Mini5-G3-B

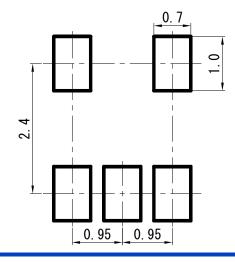
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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