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Zener Diode

DZ5S082D0R

Panasonic

DZ5S082D0R

Silicon epitaxial planar type

For surge absorption circuit DZ5J082D in SSMini5 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:03
- Basic Part Number : Dual DZ3X082D (Common anode)

■ Packaging

Embossed type (Thermo-compression sealing) 8 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Total power dissipation *1	PT	150	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)

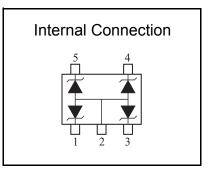
Solder in (0.35 mm x 0.40 mm)

*2: Test method:IEC61000_4_2(C = 150 pF,R = 330 Ω , Contact discharge:10 times)

Unit: mm 1. 6 0. 2 0. 13 7 9 (0. 5) (0. 5) 1. 0

- 1. Cathode1
- 4 Cathode3
- 2. Anode1,2,3,4 5. Cathode4
- 3. Cathode2

Panasonic	SSMini5-F4-B
JEITA	SC-107BB
Code	SOT-665



■ 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	7.79		8.61	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 = 5 V			0.1	μA
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		4.8		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

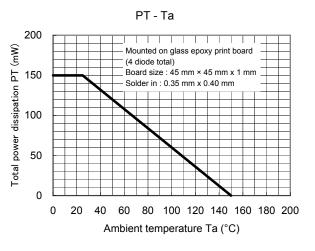
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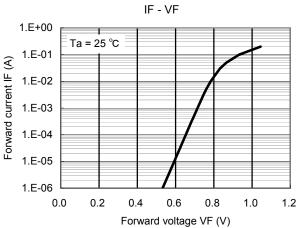
Panasonic

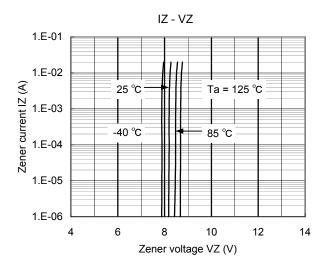
Zener Diode

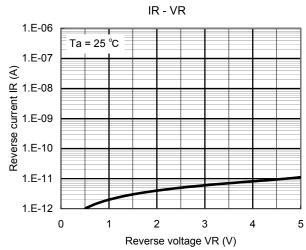
DZ5S082D0R

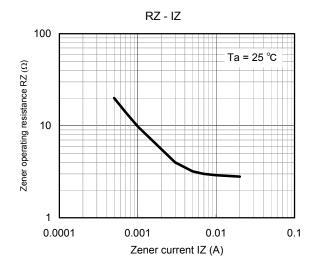
Technical Data (reference)

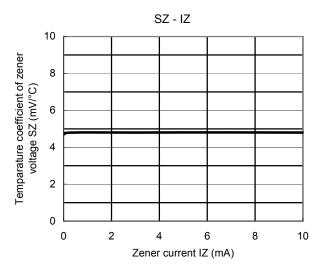












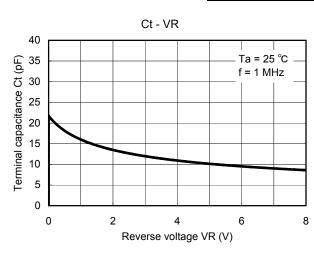
Established: 2010-08-05 Revised: 2013-10-28 Doc No. TT4-EA-12707 Revision. 3

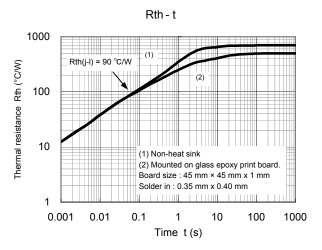
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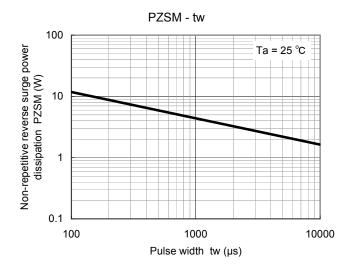
Zener Diode

DZ5S082D0R

Technical Data (reference)







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

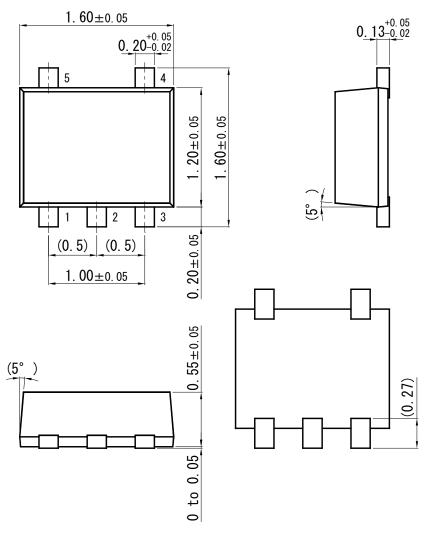
Zener Diode

DZ5S082D0R

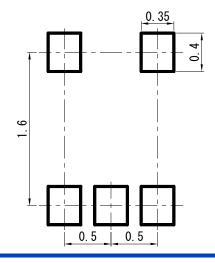
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Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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