

DZ5J100D

Silicon epitaxial planar type

For surge absorption circuits

DZ5X100D in SMini5 type package

■ Features

- Excellent rising characteristics of zener current I_Z
- Low zener operating resistance R_Z
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Basic Part Number

Dual DZ3X100D (Common anode)

■ Packaging

Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Total power dissipation *	P_T	200	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note) *: $P_T = 200$ mW achieved with a printed circuit board. (4 diode total)

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 10$ mA			1.0	V
Zener voltage *	V_Z	$I_Z = 5$ mA	9.50		10.50	V
Zener operating resistance	R_Z	$I_Z = 5$ mA			30	Ω
Zener rise operating resistance	R_{ZK}	$I_Z = 0.5$ mA			60	Ω
Reverse current	I_R	$V_R = 7$ V			0.05	μA
Temperature coefficient of zener voltage	S_Z	$I_Z = 5$ mA		6.5		mV/ $^\circ\text{C}$

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

2. Electrostatic breakdown voltage: ± 10 kV

Test method: IEC61000-4-2 (C = 150 pF, R = 330 Ω , Contact discharge: 10 times)

3. *1: The temperature must be controlled 25°C for V_Z measurement. V_Z value measured at other temperature must be adjusted to $V_Z (25^\circ\text{C})$

*2: V_Z guaranteed 20 ms after current flow.

*3: $T_j = 25^\circ\text{C}$ to 150°C

■ Package

• Code

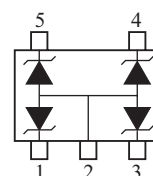
SMini5-F3-B

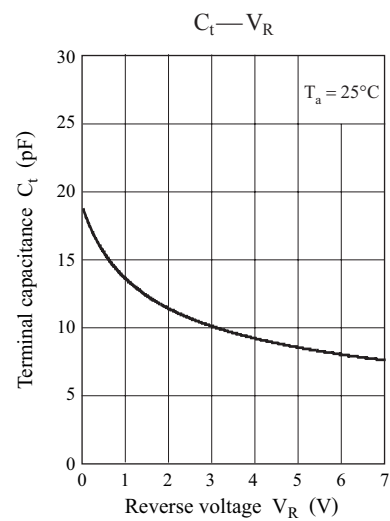
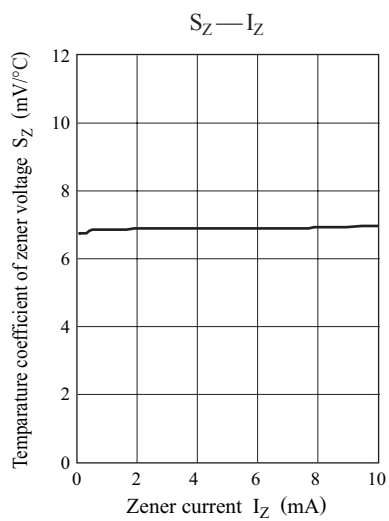
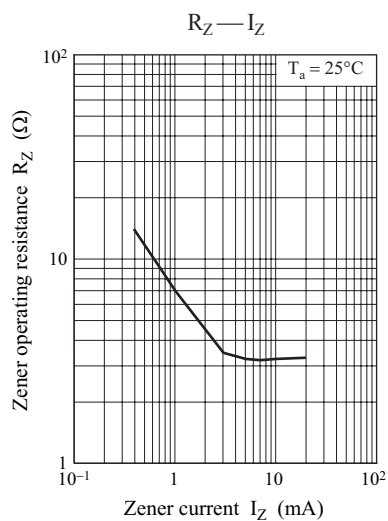
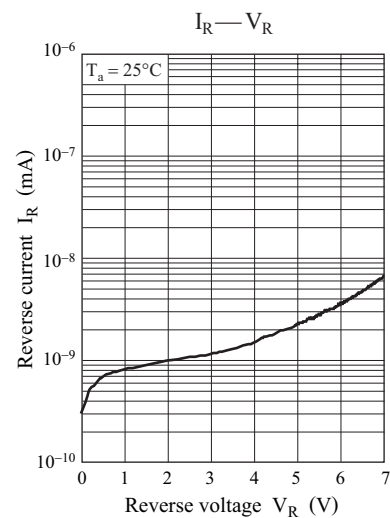
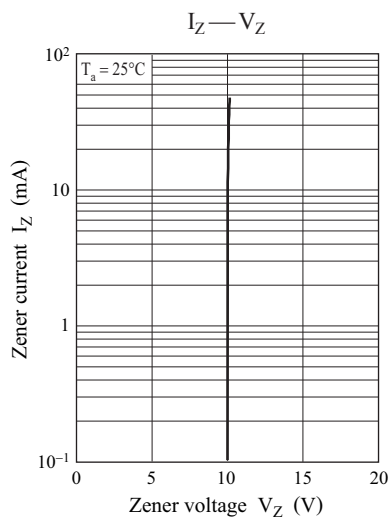
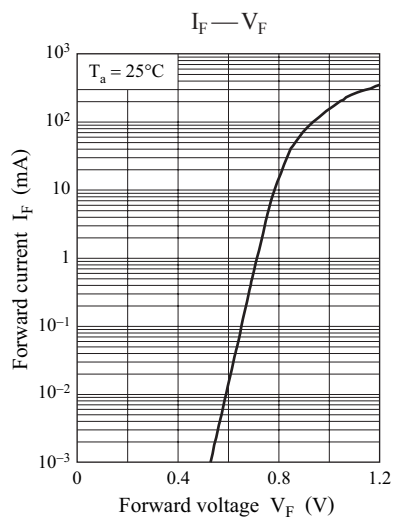
• Pin Name

- | | |
|---------------------|---------------|
| 1: Cathode -1 | 4: Cathode -3 |
| 2: Anode-1, 2, 3, 4 | 5: Cathode -4 |
| 3: Cathode -2 | |

■ Marking Symbol: 04

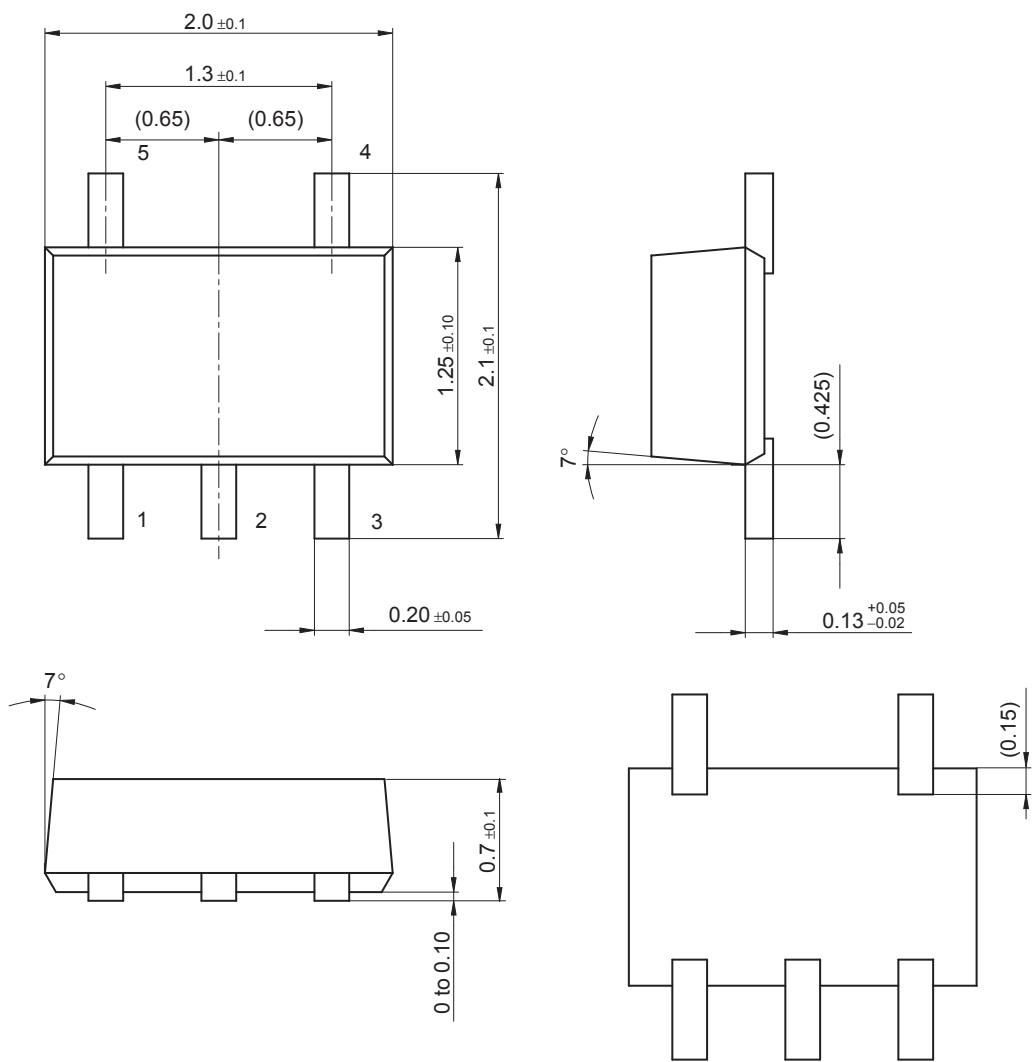
■ Internal Connection





SMini5-F3-B

Unit: mm



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