DZ2J051

Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit Low noise type

Features

- \bullet Excellent rising characteristics of zener current $I_{\rm z}$
- Eco-friendly Halogen-free package

Packaging

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

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

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I _{FRM}	200	mA
Total power dissipation *	P _T	200	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Note) *: $P_T = 200 \text{ mW}$ achieved with a printed circuit board.

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 10 \text{ mA}$			1.0	V
Zener voltage *1, 2, 4	VZ	$I_Z = 5 \text{ mA}$	4.85		5.36	V
Zener operating resistance	R _Z	$I_Z = 5 \text{ mA}$			60	Ω
Zener rise operating resistance	R _{ZK}	$I_{Z} = 1.0 \text{ mA}$			500	Ω
Reverse current	I _R	$V_{\rm R} = 2.0 {\rm V}$			1.0	μΑ
Temperature coefficient of zener voltage *3	Sz	$I_Z = 5 \text{ mA}$		0.7		mV/°C

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

2. Absolute frequency of input and output is 5 MHz.

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°C) *2: V_Z guaranteed 20 ms after current flow.

*3: $T_i = 25^{\circ}C$ to 150°C

*4: Rank classification

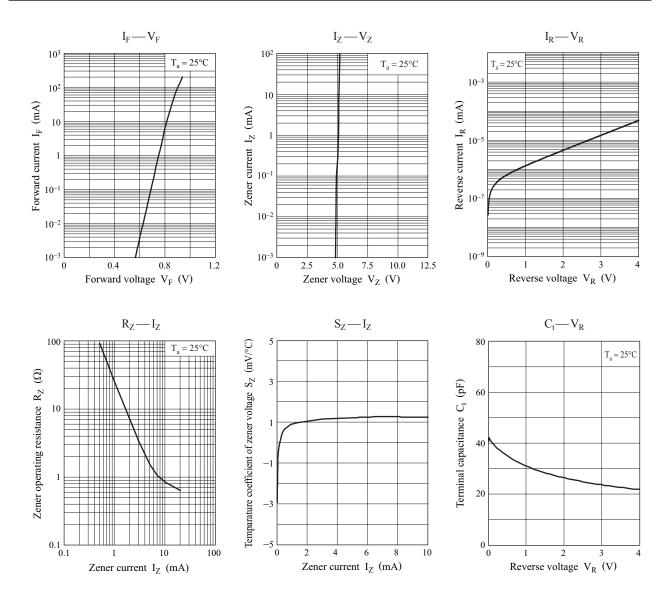
Code	М	0
Rank	М	No-rank
Vz	5.00 to 5.26	4.85 to 5.36
Marking Symbol	CU	СЈ

Package

- Code
- SMini2-F5-B
- Pin Name
 - 1. Cathode
 - 2. Anode
- Marking Symbol: CJ, CU

DZ2J051

Panasonic

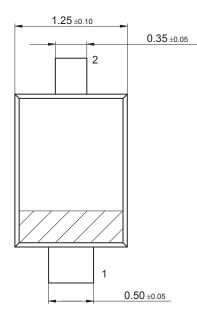


Panasonic

SMini2-F5-B

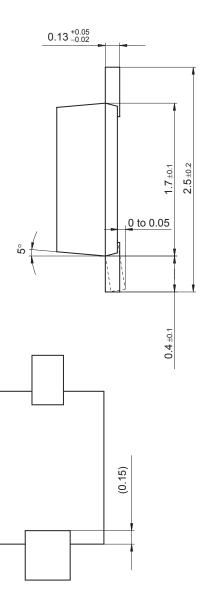
5

Unit: mm



0.7 ±0.1

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