DZ2S051

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ2J051 in SSMini2 type package

Features

- \bullet Excellent rising characteristics of zener current $I_{\rm z}$
- \bullet Low zener operating resistance R_{Z}
- Halogen-free / RoHs compliant
- (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

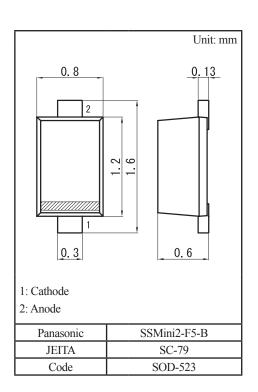
Marking Symbol: CJ, CU

Packaging

DZ2S051×0L Embossed type (Thermo-compression sealing): 3 000 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 *1	P _T	150	mW
Electrostatic discharge *2	ESD	±15	kV
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



Note) *1: Mounted on glass epoxy print board. (45 mm \times 45 mm \times 1 mm)

Solder in (0.8 mm \times 0.6 mm)

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

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_{\rm F} = 10 {\rm mA}$			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.

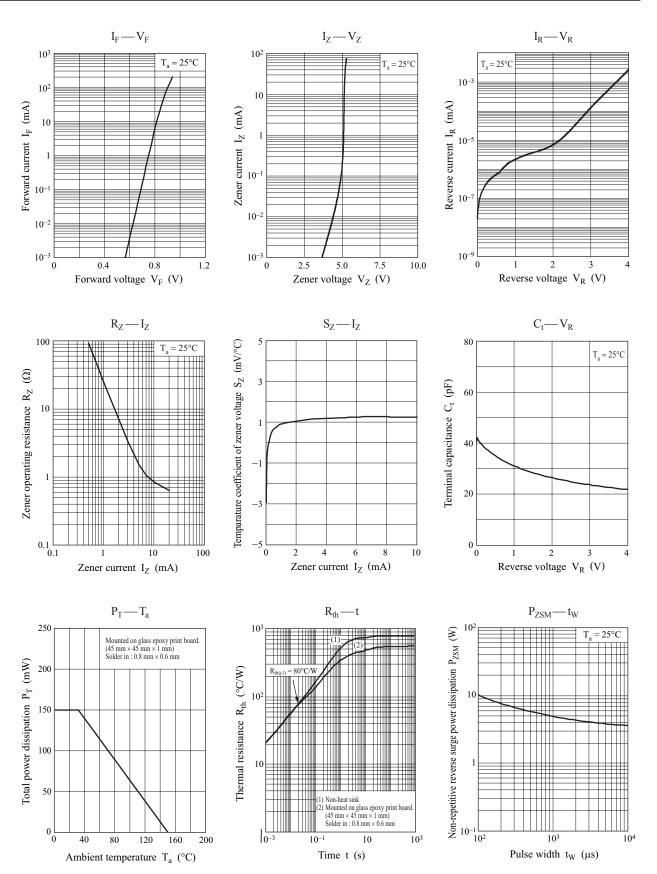
2. Absolute frequency of input and output is 5 MHz.

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: $T_j = 25^{\circ}C$ to $150^{\circ}C$

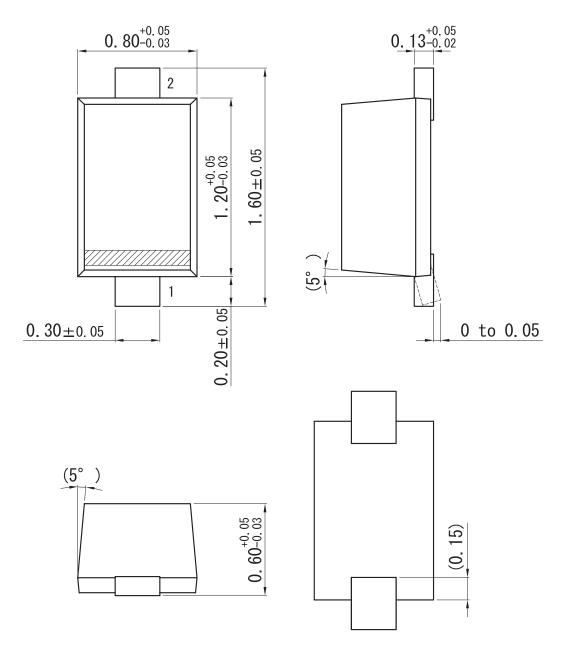
*4: Rank classification

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

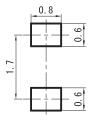


SSMini2-F5-B

Unit: mm



Land Pattern (Reference) (Unit: mm)



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