# DZ2J056

### Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

#### Features

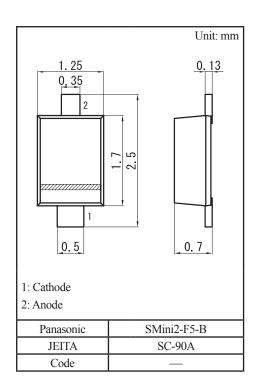
- $\bullet$  Excellent rising characteristics of zener current  $I_{\rm z}$
- $\bullet$  Low zener operating resistance  $R_{\rm Z}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: DJ, DU

#### Packaging

DZ2J056×0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

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

Parameter	Symbol Rating		
Repetitive peak forward current	I <sub>FRM</sub>	200	mA
Total power dissipation *1	P <sub>T</sub>	200	mW
Electrostatic discharge *2	ESD	±15	kV
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C



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

Solder in (Recommended land pattern)

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

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 10 \text{ mA}$			1.0	V
Zener voltage *1, 2, 4	VZ	$I_Z = 5 \text{ mA}$	5.32		5.88	V
Zener operating resistance	R <sub>Z</sub>	$I_Z = 5 \text{ mA}$			40	Ω
Zener rise operating resistance	R <sub>ZK</sub>	$I_{Z} = 0.5 \text{ mA}$			200	Ω
Reverse current	I <sub>R</sub>	V <sub>R</sub> =2.5 V			0.5	μΑ
Temperature coefficient of zener voltage *3	SZ	$I_Z = 5 \text{ mA}$		1.6		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.

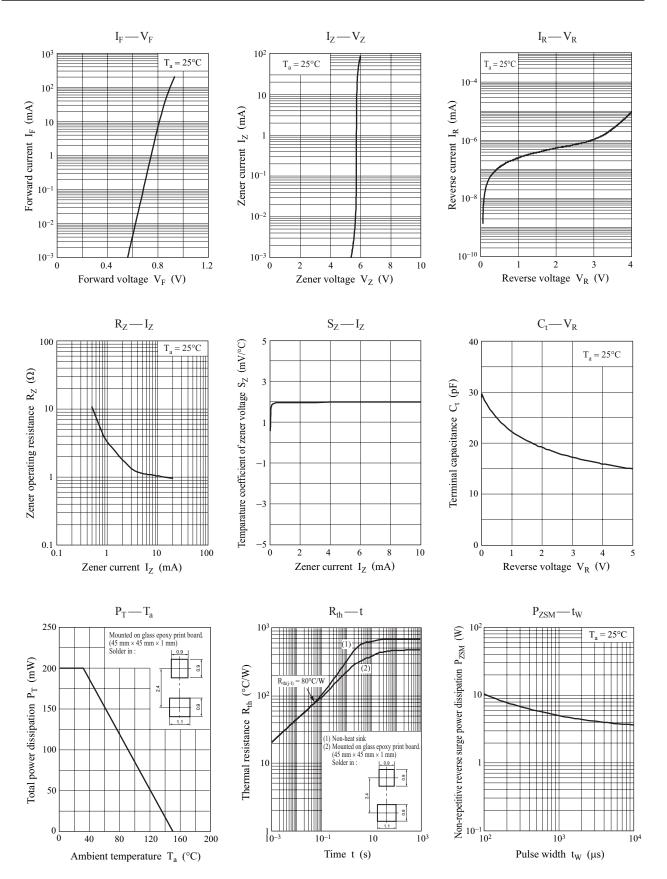
3. \*1: The temperature must be controlled 25°C for  $V_Z$  measurement.  $V_Z$  value measured at other temperature must be adjusted to  $V_Z$  (25°C) \*2:  $V_Z$  guaranteed 20 ms after current flow.

\*3:  $T_i = 25^{\circ}C$  to 150°C

\*4: Rank classification

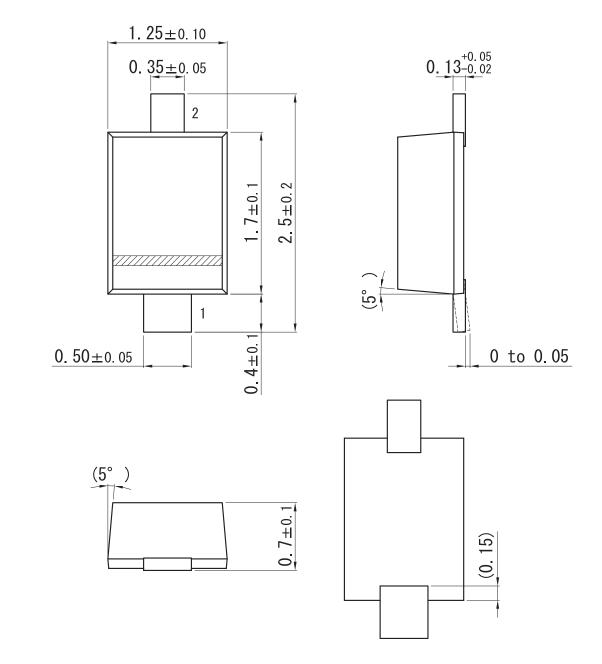
Code	М	0
Rank	М	No-rank
Vz	5.48 to 5.76	5.32 to 5.88
Marking Symbol	DU	DJ

## **Panasonic**

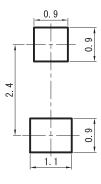


Unit: mm

SMini2-F5-B



Land Pattern (Reference) (Unit: mm)



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