

## DZ2S039×0L

## Silicon epitaxial planar type

For constant voltage / For surge absorption circuit  
DZ2J039 in SSMini2 type package

### ■ Features

- Excellent rising characteristics of zener current  $I_Z$
- Low zener operating resistance  $R_Z$
- Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

### ■ Marking Symbol: 7J or 7U

### ■ Packaging

Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation <sup>*1</sup>	PT	150	mW
Electrostatic discharge <sup>*2</sup>	ESD	±15	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 × 45 mm × 1 mm )

Solder in ( 0.8 mm × 0.6 mm )

\*2 Test method : IEC61000\_4\_2

( C = 150 pF, R = 330 Ω, Contact discharge : 10 times )

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage <sup>*1, *2</sup>	VZ	IZ = 5 mA	3.71		4.10	V
Zener operating resistance	RZ	IZ = 5 mA			130	Ω
Reverse current	IR	VR = 1 V			10	μA
Temperature coefficient of zener voltage <sup>*3</sup>	SZ	IZ = 5 mA		-1.3		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 VZ measurement.

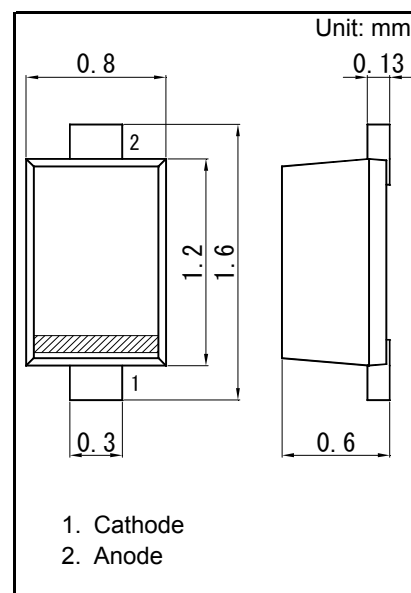
VZ value measured at other temperature must be adjusted to VZ (25 °C).

\*2 VZ guaranteed 20 ms after current flow

\*3 Tj = 25 °C to 150 °C

#### Rank classification

Code	M	0
Rank	M	No-rank
VZ	3.80 to 4.00	3.71 to 4.10
Marking symbol	7U	7J



1. Cathode  
2. Anode

Panasonic	SSMini2-F5-B
JEITA	SC-79
Code	SOD-523

