## **DZ2W024**

## Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit Capability of withstanding a high surge type

#### ■ Features

- Excellent rising characteristics of zener current I<sub>Z</sub>
- Low zener operating resistance R<sub>Z</sub>
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

#### Packaging

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

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I <sub>FRM</sub> 500		mA
Total power dissipation *1	P <sub>T</sub>	1	W
Junction temperature	$T_j$	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C
Non-repetitive reverse surge power dissipation *2	P <sub>ZSM</sub>	100	W

Note) \*1: Mounted on ceramics print circuit board.

Board size: 50 mm  $\times$  50 mm, Board thickness: 0.8 mm, Soldering size: 2 mm  $\times$  2 mm

### ■ Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 200 \text{ mA}$			1.2	V
Zener voltage *1,2	Vz	$I_Z = 20 \text{ mA}$	2.28	2.40	2.52	V
Zener operating resistance	$R_Z$	$I_Z = 20 \text{ mA}$			150	Ω
Reverse current	$I_R$	$V_R = 1 V$			200	μΑ
Temperature coefficient of zener voltage *3	S <sub>Z</sub>	$I_Z = 20 \text{ mA}$		-1.4		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: Vz guaranteed 20 ms after current flow.
  - \*3:  $T_i = 25^{\circ}C$  to  $150^{\circ}C$

#### ■ Package

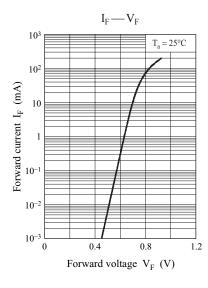
Code

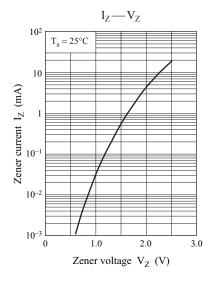
Mini2-F3-B

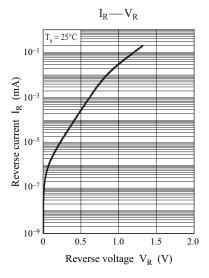
- Pin Name
  - 1. Cathode
  - 2. Anode
- Marking Symbol: 1J

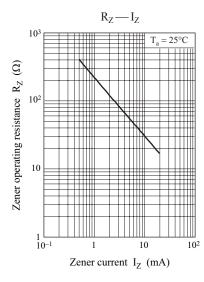
<sup>\*2:</sup> t = 0.1 ms

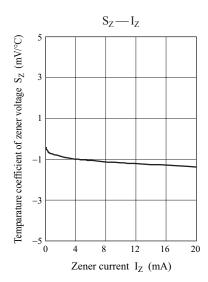
DZ2W024 Panasonic

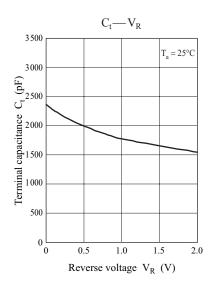












2 Ver. AED

Panasonic DZ2W024

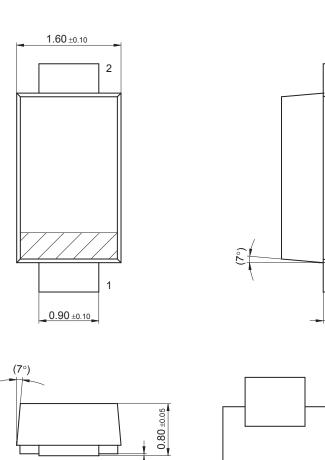
Mini2-F3-B Unit: mm

 $0.45 \pm 0.10$ 

2.60 ±0.10 3.50 ±0.10

0 to 0.3

 $0.13^{\,+0.05}_{\,-0.02}$ 



0 to 0.1

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