

# DZ2W100

## Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit

Capability of withstanding a high surge type

DZ24100 in Mini2 type package

### ■ Features

- Excellent rising characteristics of zener current  $I_Z$
- Low zener operating resistance  $R_Z$
- 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 $T_a = 25^\circ\text{C}$

| Parameter   | Symbol    | Rating      | Unit             |
|---|-----------|-------------|------------------|
| Repetitive peak forward current                   | $I_{FRM}$ | 500         | mA               |
| Total power dissipation *1                        | $P_T$     | 1           | W                |
| Junction temperature                              | $T_j$     | 150         | $^\circ\text{C}$ |
| Storage temperature                               | $T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |
| Non-repetitive reverse surge power dissipation *2 | $P_{ZSM}$ | 100         | W                |

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

Board size: 50 mm × 50 mm, Board thickness: 0.8 mm, Soldering size: 2 mm × 2 mm

\*2:  $t = 0.1$  ms

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

| Parameter                                   | Symbol | Conditions     | Min  | Typ   | Max   | Unit                 |
|---|--------|----------------|------|-------|-------|----------------------|
| Forward voltage                             | $V_F$  | $I_F = 200$ mA |      |       | 1.2   | V                    |
| Zener voltage *1,2                          | $V_Z$  | $I_Z = 10$ mA  | 9.50 | 10.00 | 10.50 | V                    |
| Zener operating resistance                  | $R_Z$  | $I_Z = 10$ mA  |      |       | 30    | $\Omega$             |
| Reverse current                             | $I_R$  | $V_R = 7.0$ V  |      |       | 10    | $\mu\text{A}$        |
| Temperature coefficient of zener voltage *3 | $S_Z$  | $I_Z = 10$ mA  |      | 6.8   |       | mV/ $^\circ\text{C}$ |

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  $25^\circ\text{C}$  for  $V_Z$  measurement.  $V_Z$  value measured at other temperature must be adjusted to  $V_Z(25^\circ\text{C})$

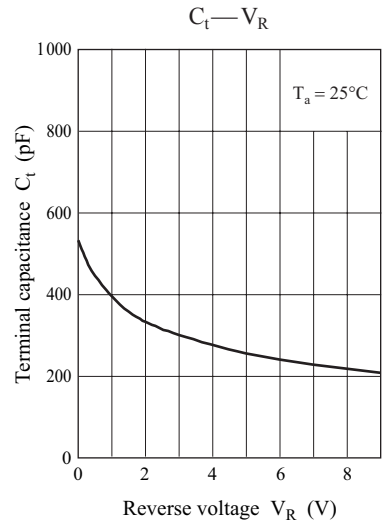
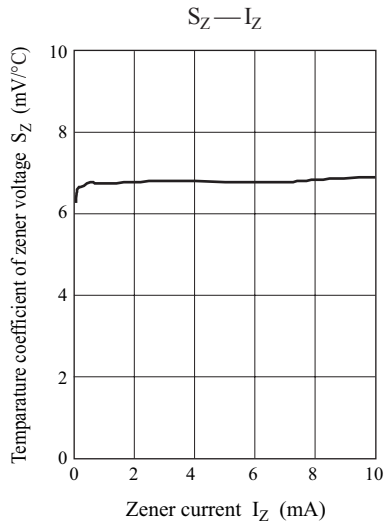
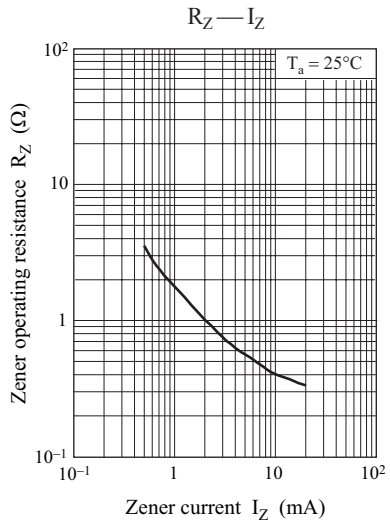
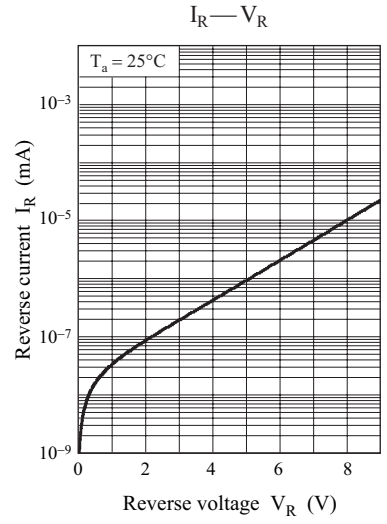
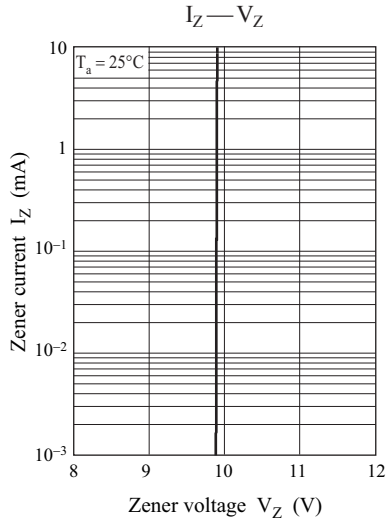
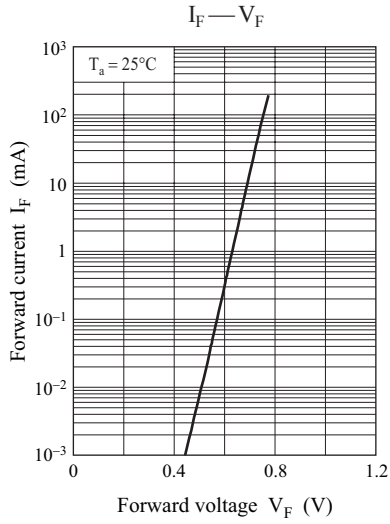
\*2:  $V_Z$  guaranteed 20 ms after current flow.

\*3:  $T_j = 25^\circ\text{C}$  to  $150^\circ\text{C}$

### ■ Package

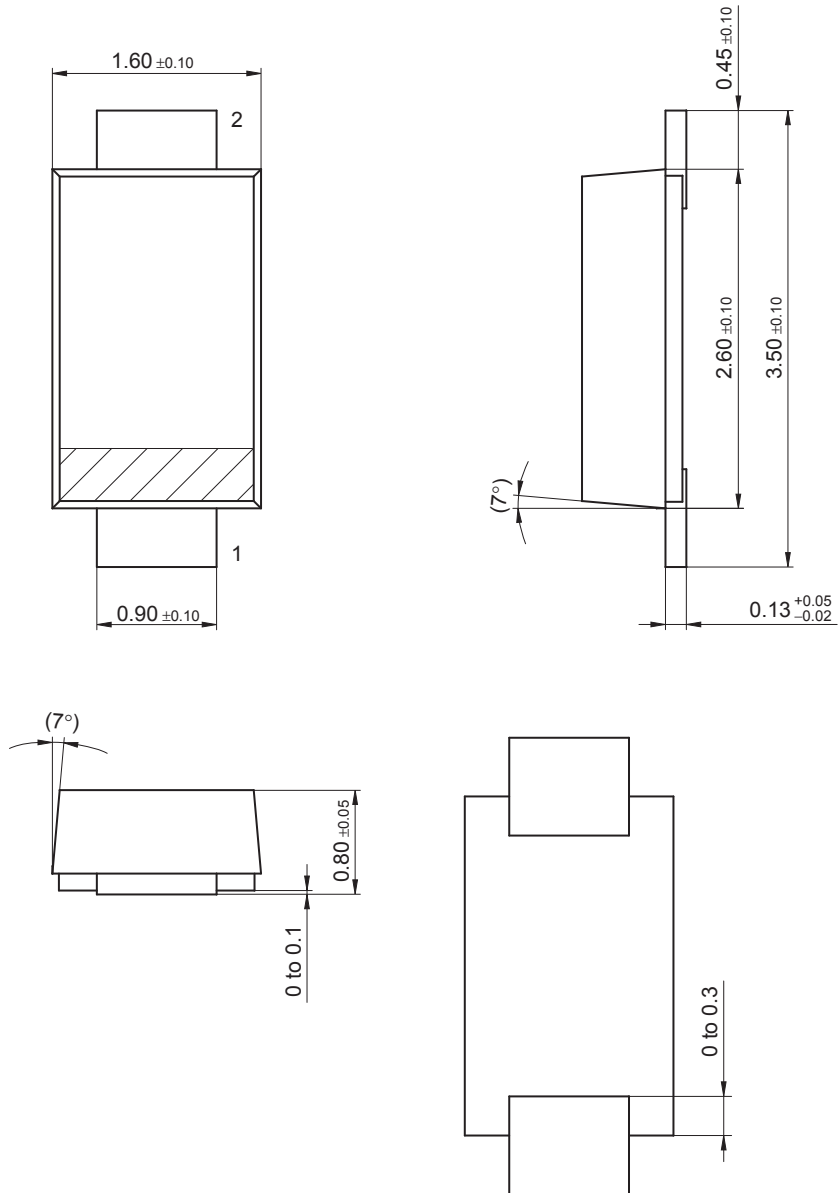
- Code  
Mini2-F3-B
- Pin Name  
1. Cathode  
2. Anode

### ■ Marking Symbol: NJ



Mini2-F3-B

Unit: mm



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