

# DZ2W180

## Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit

Capability of withstanding a high surge type

DZ24180 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	17.10	18.00	18.90	V
Zener operating resistance	$R_Z$	$I_Z = 10$ mA			30	$\Omega$
Reverse current	$I_R$	$V_R = 13.0$ V			10	$\mu\text{A}$
Temperature coefficient of zener voltage *3	$S_Z$	$I_Z = 10$ mA		15.8		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  $V_Z(25^\circ\text{C})$

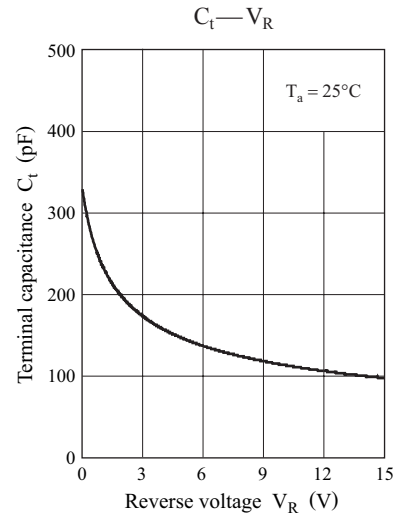
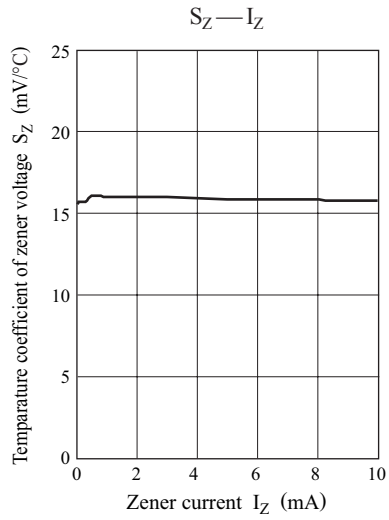
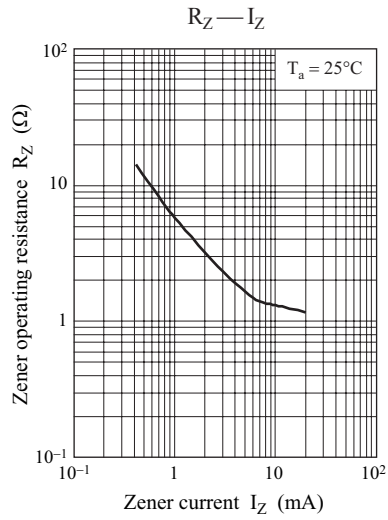
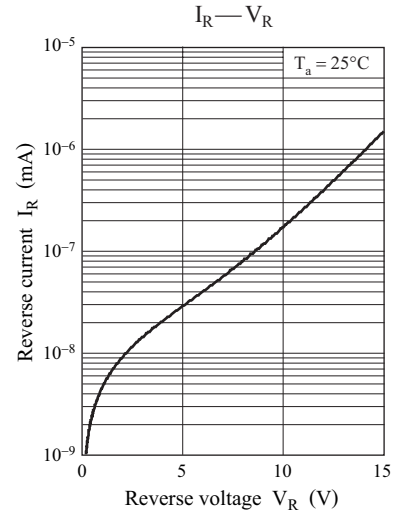
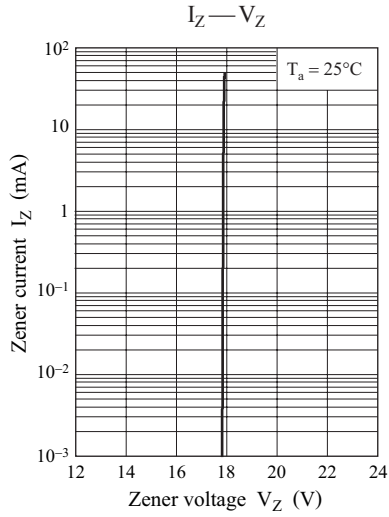
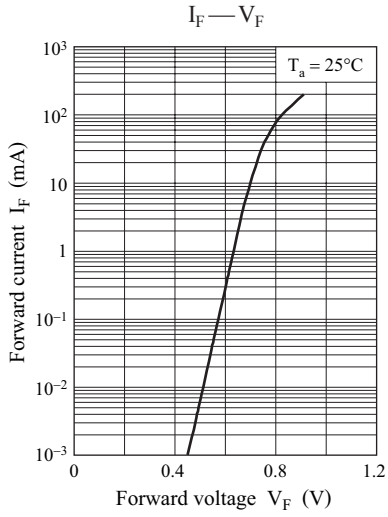
\*2:  $V_Z$  guaranteed 20 ms after current flow.

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

### ■ Package

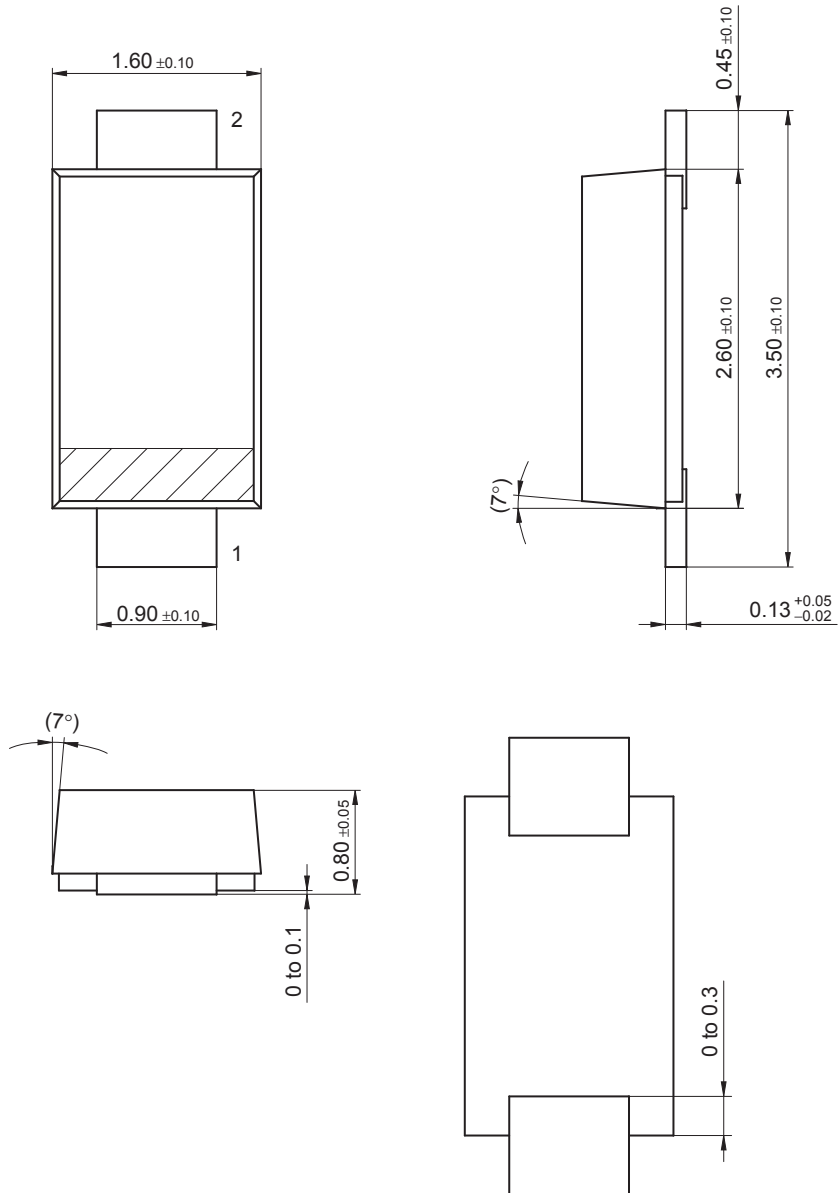
- Code  
Mini2-F3-B
- Pin Name  
1. Cathode  
2. Anode

### ■ Marking Symbol: YJ



Mini2-F3-B

Unit: mm



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