

DZ2W510

Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit

Capability of withstanding a high surge type

DZ24510 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)

■ Package

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

■ Marking Symbol: RG

■ 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: $t = 0.1 \text{ ms}$

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 200 \text{ mA}$			1.2	V
Zener voltage *1, 2	V_Z	$I_Z = 5 \text{ mA}$	48.45	51.00	53.55	V
Zener operating resistance	R_Z	$I_Z = 5 \text{ mA}$			65	Ω
Reverse current	I_R	$V_R = 40.8 \text{ V}$			10	μA
Temperature coefficient of zener voltage *3	S_Z	$I_Z = 5 \text{ mA}$		58.0		$\text{mV}/^\circ\text{C}$

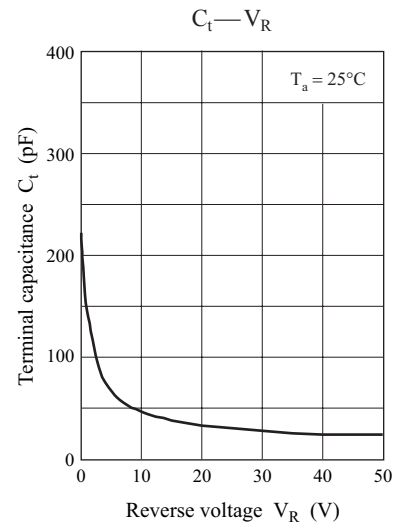
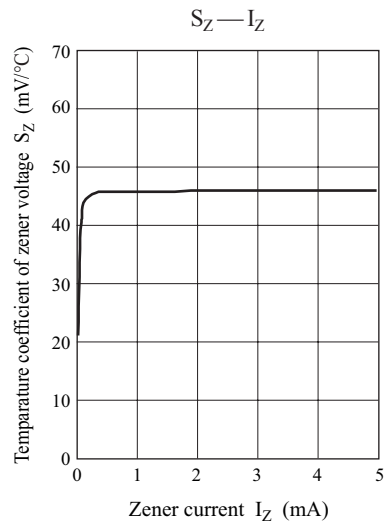
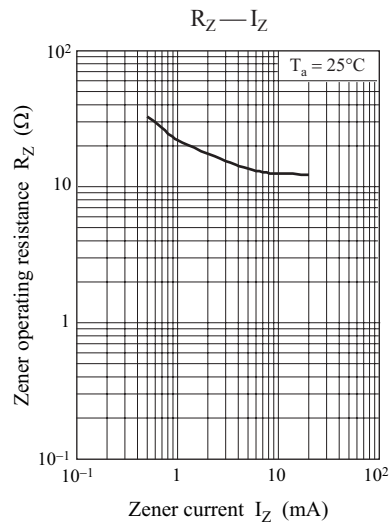
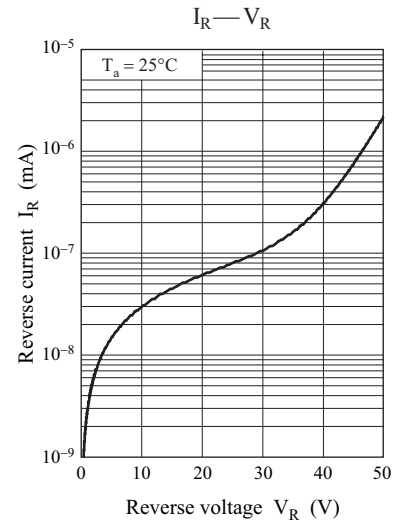
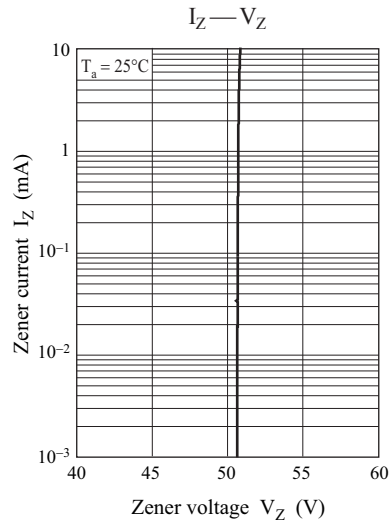
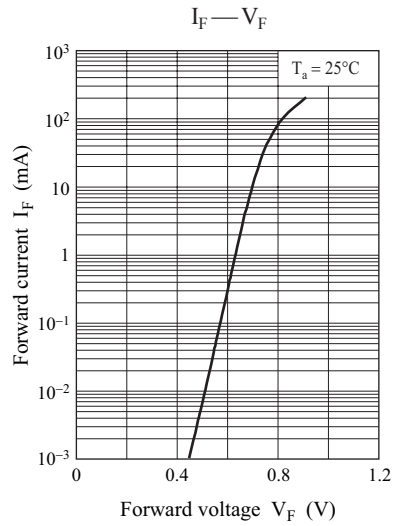
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 5 MHz.

3. *1: The temperature must be controlled 25°C for V_Z measurement. V_Z value measured at other temperature must be adjusted to $V_Z (25^\circ\text{C})$

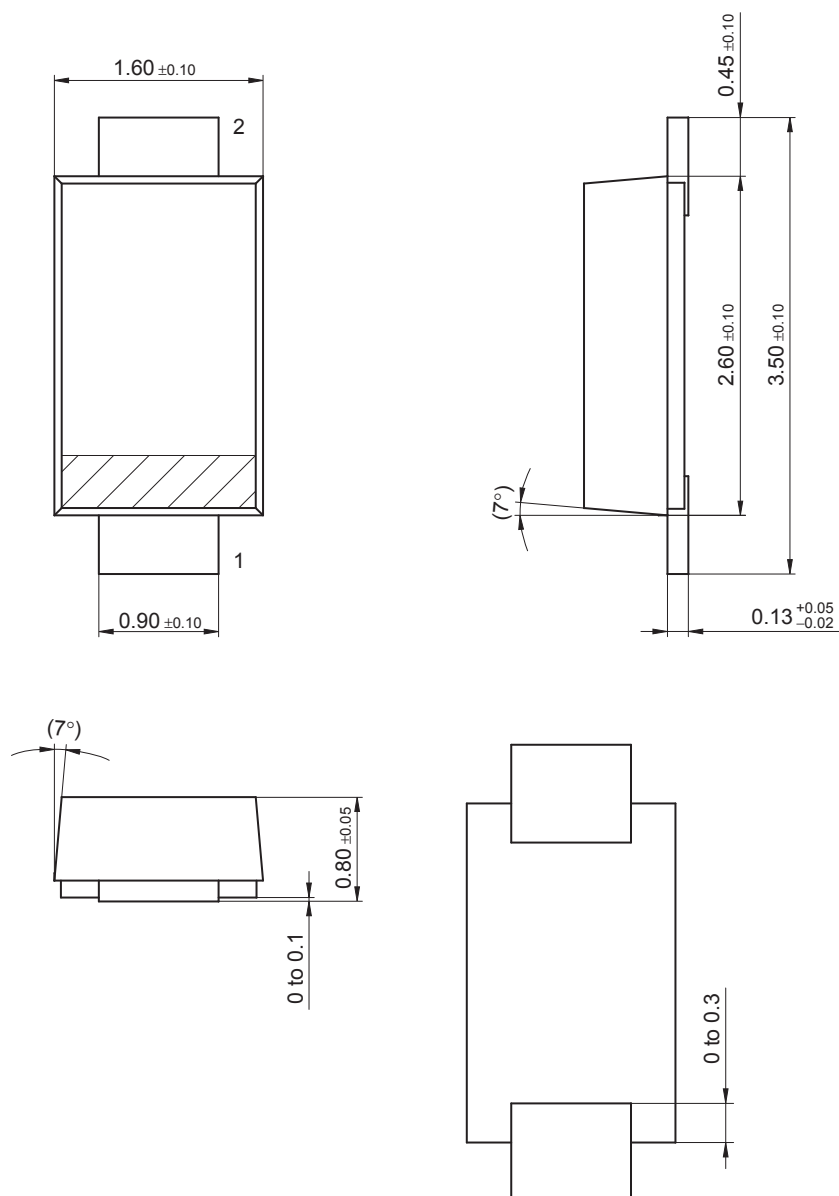
*2: V_Z guaranteed 20 ms after current flow.

*3: $T_j = 25^\circ\text{C}$ to 150°C



Mini2-F3-B

Unit: mm



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