DZ24510

Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit Capability of withstanding a high surge type DZ2W510 in Power type package

■ Features

- Excellent rising characteristics of zener current IZ
- Low zener operating resistance R_Z
- Contributes to miniaturization of sets, mount area reduction
- 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_{FRM}	500	mA	
Total power dissipation *1	P_{T}	2	W	
Non-repetitive reverse surge power dissipation *2	P _{ZSM}	100	W	
Junction temperature	T_j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

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

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

Parameter	Symbol	Conditions	Min	Тур	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	μΑ
Temperature coefficient of zener voltage *3	S _Z	$I_Z = 5 \text{ mA}$		58.0		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: V_Z guaranteed 20 ms after current flow.
 - *3: $T_i = 25^{\circ}C$ to $150^{\circ}C$

■ Package

Code

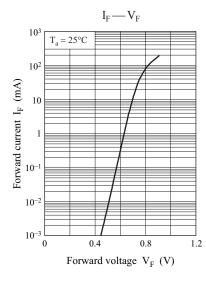
TMiniP2-F2-B

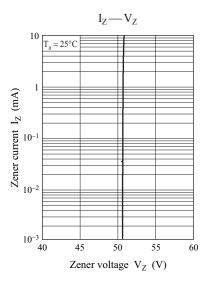
- Pin Name
 - 1. Cathode
 - 2. Anode

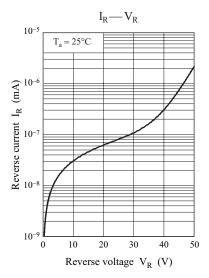
■ Marking Symbol: RG

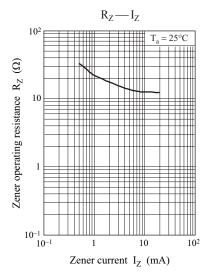
^{*2:} t = 0.1 ms

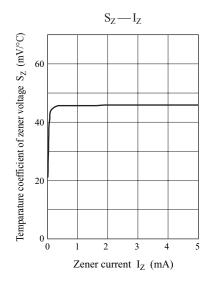
DZ24510 Panasonic

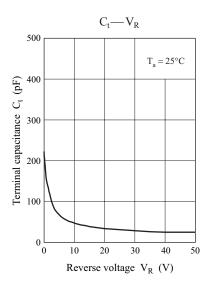








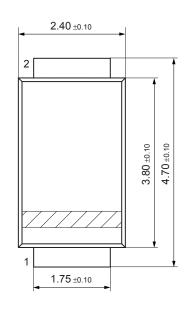


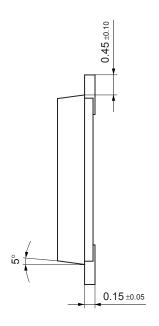


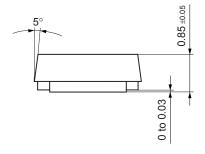
2 Ver. BED

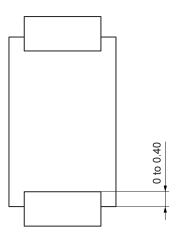
TMiniP2-F2-B

Unit: mm









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