DZ24056

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit Capability of withstanding a high surge type DZ2W056 in Power type package

Features

- \bullet Excellent rising characteristics of zener current $I_{\boldsymbol{Z}}$
- \bullet Low zener operating resistance $R_{\rm Z}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

Marking Symbol: DJ

Packaging

DZ2405600L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

ADSOLUTE MAXIMUM Ratings $T_a = 25$ C								
Parameter	Symbol	Rating	Unit					
Forward current	$I_{\rm F}$	400	mA					
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					
Electrostatic discharge *3	ESD	±30	kV					
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	°C					

Absolute Maximum Ratings $T_a = 25^{\circ}C$

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

*2: t = 0.1 ms

*3: Test method:IEC61000-4-2 (C = 150 pF, R = 330 Ω , Contact discharge:10 times)

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

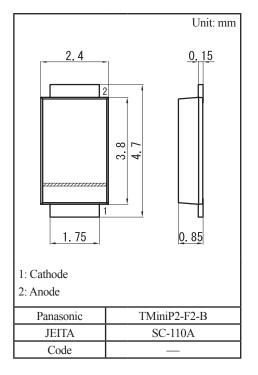
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_{\rm F} = 200 {\rm mA}$			1.2	V
Zener voltage *1,2	Vz	$I_Z = 20 \text{ mA}$	5.32	5.60	5.88	V
Zener operating resistance	R _Z	$I_Z = 20 \text{ mA}$			40	Ω
Reverse current	I _R	$V_{\rm R} = 2.0 {\rm V}$			20	μΑ
Temperature coefficient of zener voltage *3	Sz	$I_Z = 20 \text{ mA}$		1.3		mV/°C

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

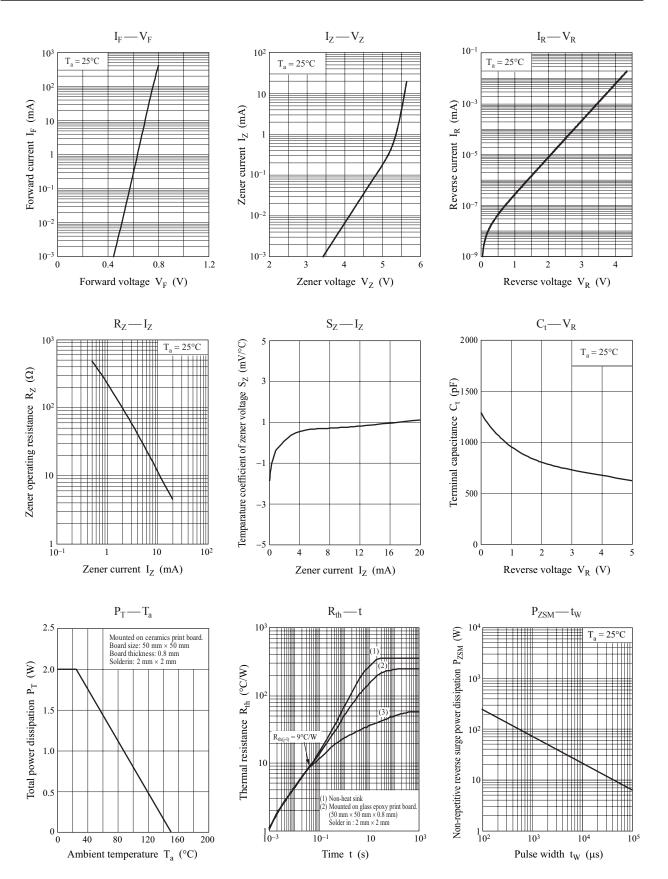
2. Absolute frequency of input and output is 5 MHz.

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 $150^{\circ}C$

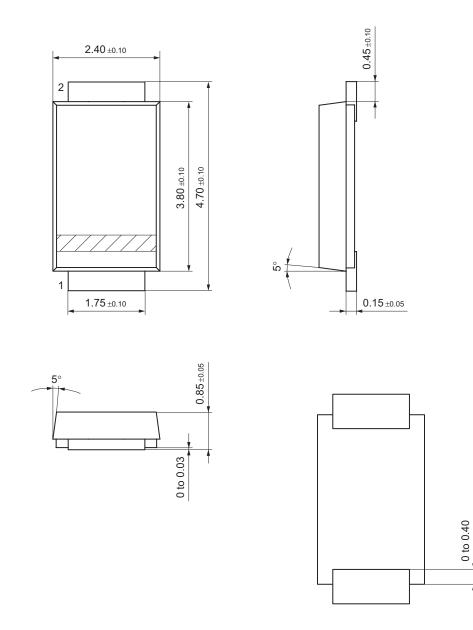


Panasonic

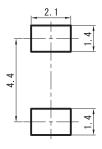


TMiniP2-F2-B

Unit: mm



Land Pattern (Reference) (Unit: mm)



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