DZ2J220

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit

■ Features

- Excellent rising characteristics of zener current I_z
- Low zener operating resistance R_Z
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

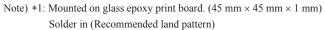
■ Marking Symbol: CG, CR

■ Packaging

DZ2J220×0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Repetitive peak forward current	I_{FRM}	200	mA	
Total power dissipation *1	P _T	200	mW	
Electrostatic discharge *2	ESD	±8	kV	
Junction temperature	T_j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



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

1. 25 0. 13 0. 35 0. 35 0. 5 0. 7 1: Cathode 2: Anode Panasonic SMini2-F5-B JEITA SC-90A Code —

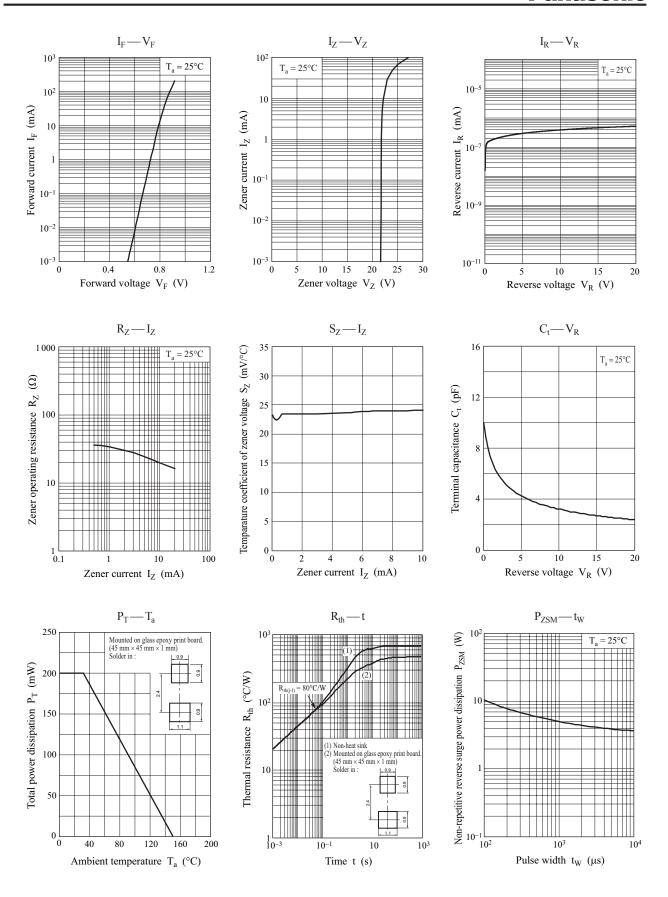
■ Common Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 10 \text{ mA}$			1.0	V
Zener voltage *1,2,4	Vz	$I_Z = 5 \text{ mA}$	20.90		23.10	V
Zener operating resistance	R_Z	$I_Z = 5 \text{ mA}$			80	Ω
Zener rise operating resistance	R _{ZK}	$I_Z = 0.5 \text{ mA}$			100	Ω
Reverse current	I_R	$V_R = 17 V$			0.05	μΑ
Temperature coefficient of zener voltage *3	S_Z	$I_Z = 5 \text{ mA}$		22.2		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 $150^{\circ}C$
 - *4: Rank classification

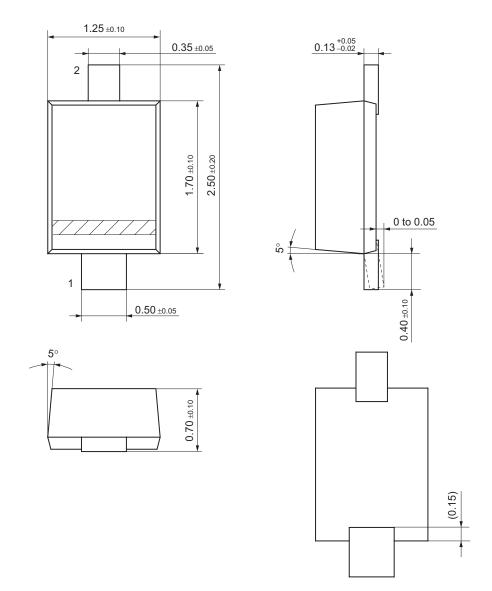
Code	М	0	
Rank	М	No-rank	
V_Z	21.45 to 22.55	20.90 to 23.10	
Marking Symbol	CR	CG	



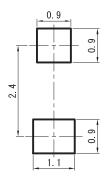
2 Ver. DED

SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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