DZ2J033

Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit
Low noise type

■ 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
  SMini2-F5-B
- Pin Name
  1. Cathode
  2. Anode

■ Marking Symbol: 5J, 5U

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I_{FRM}	200	mA
Total power dissipation *	P_T	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	–55 to +150	°C

Note) ∗: P_T = 200 mW achieved with a printed circuit board.

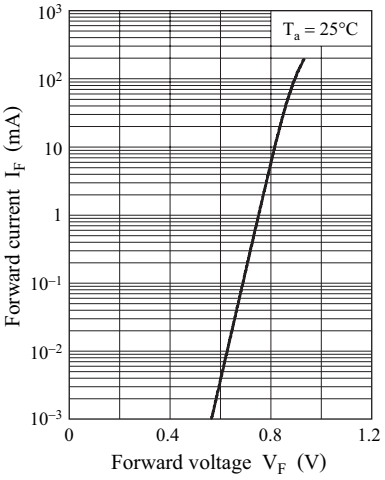
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 10 mA			1.0	V
Zener voltage *1, 2, 4	V_Z	I_Z = 5 mA	3.14		3.47	V
Zener operating resistance	R_Z	I_Z = 5 mA			130	Ω
Reverse current	I_R	V_R = 1 V			20	μA
Temperature coefficient of zener voltage *3	S_Z	I_Z = 5 mA		–2.1		mV/°C

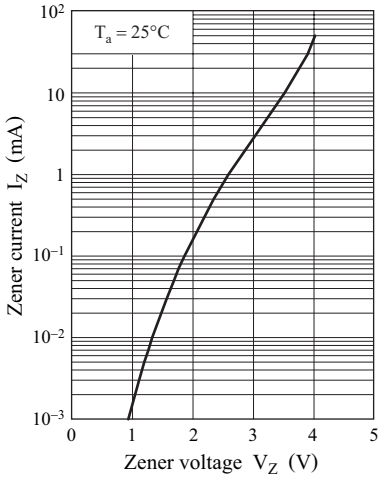
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. Absolute frequency of input and output is 5 MHz.
3. ∗1: The temperature must be controlled 25°C for V_Z measurement. V_Z value measured at other temperature must be adjusted to V_Z (25°C)
∗2: V_Z guaranteed 20 ms after current flow.
∗3: T_j = 25°C to 150°C
∗4: Rank classification

Code	M	0
Rank	M	No-rank
V_Z	3.22 to 3.38	3.14 to 3.47
Marking Symbol	5U	5J

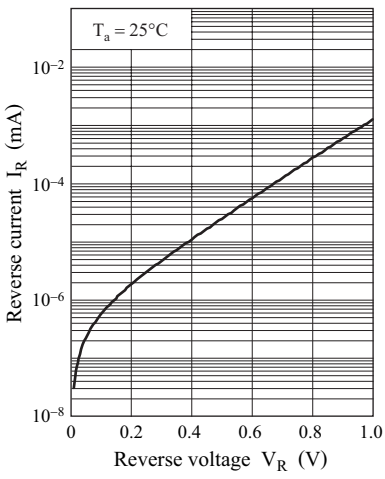
I_F — V_F



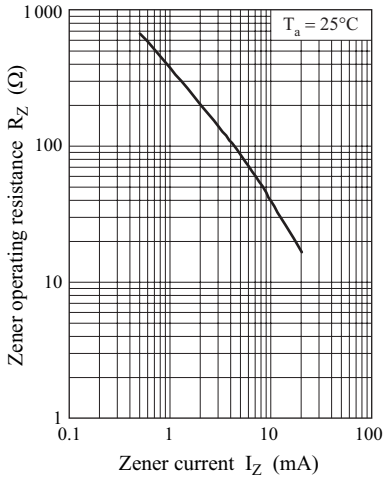
I_Z — V_Z



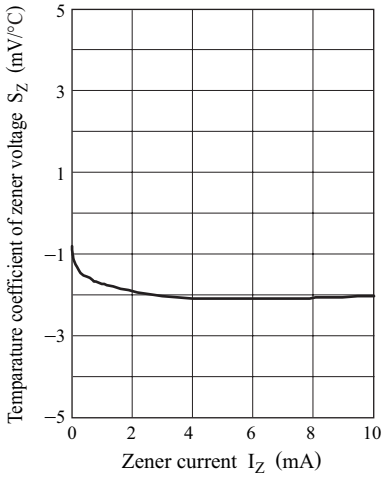
I_R — V_R



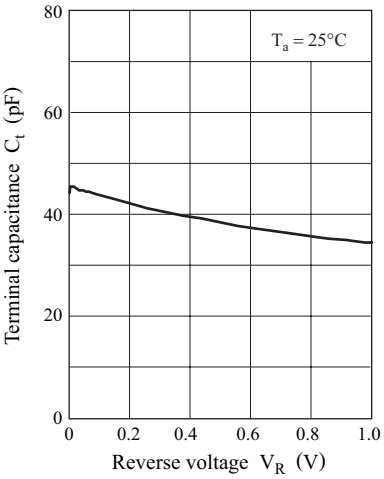
R_Z — I_Z



S_Z — I_Z

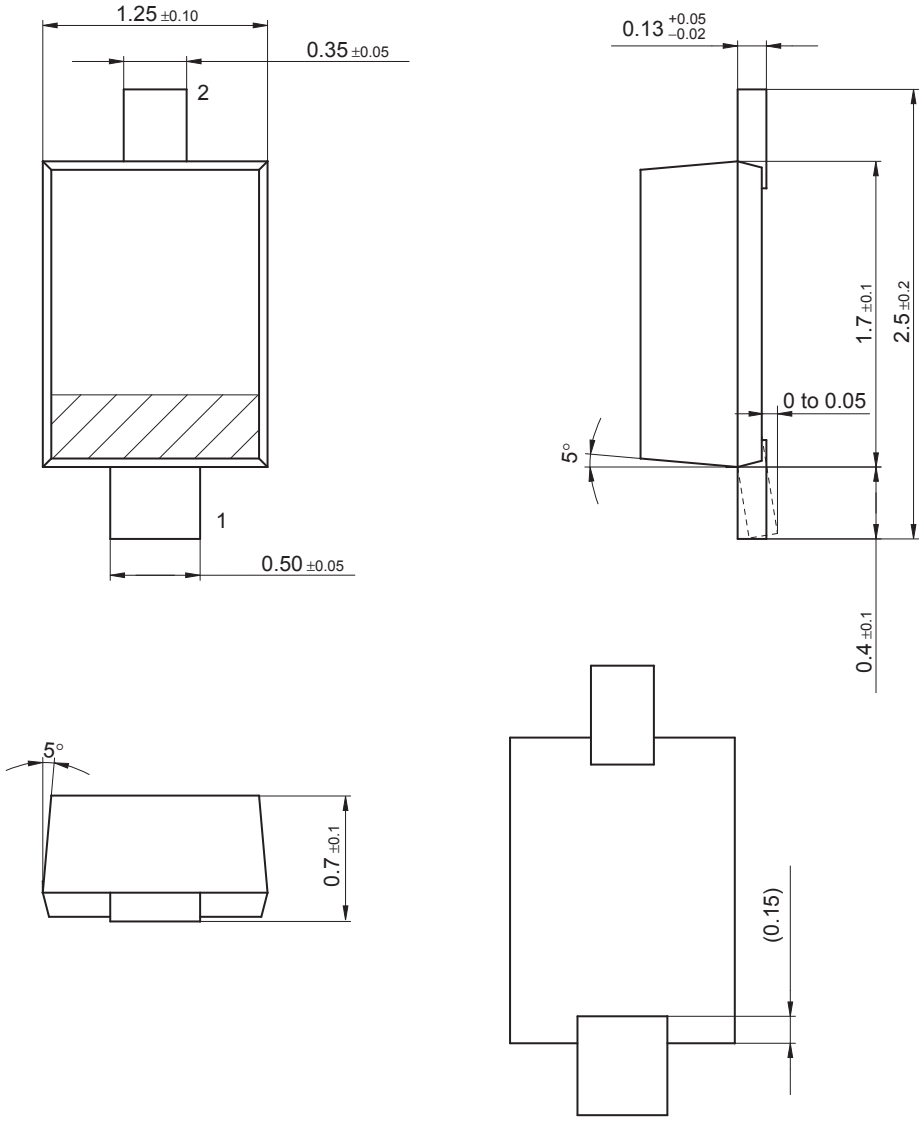


C_t — V_R



SMini2-F5-B

Unit: mm



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