DB2J310

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- Short reverse recovery time t_{rr}
- Low forward voltage V_F
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: B7

■ Packaging

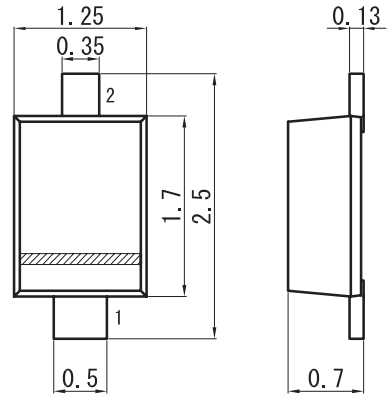
DB2J31000L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Repetitive peak reverse voltage	V_{RRM}	30	V
Forward current (Average)	$I_{F(AV)}$	200	mA
Peak forward current	I_{FM}	300	mA
Non-repetitive peak forward surge current *1	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Operating ambient temperature	T_{opr}	–40 to +85	°C
Storage temperature	T_{stg}	–55 to +125	°C

Note) *1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

Unit: mm



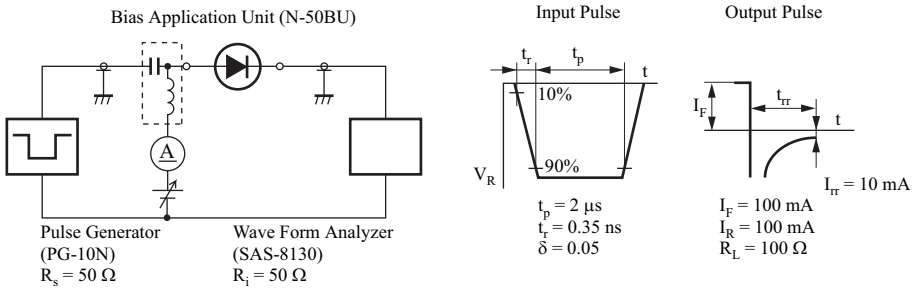
1: Cathode
2: Anode

Panasonic	SMini2-F5-B
JEITA	SC-90A
Code	—

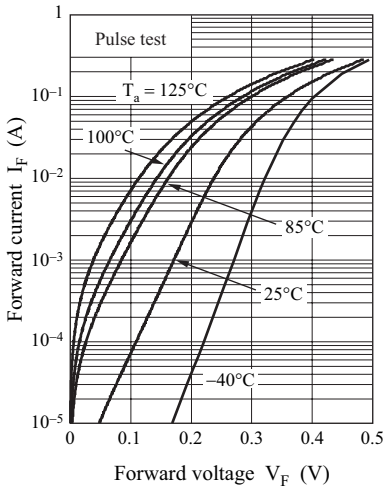
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	I_F = 5 mA			0.27	V
	V_{F2}	I_F = 100 mA			0.40	
	V_{F3}	I_F = 200 mA			0.47	
Reverse current	I_{R1}	V_R = 10 V			20	μA
	I_{R2}	V_R = 30 V			200	
Terminal capacitance	C_t	V_R = 10 V, f = 1 MHz		4.5		pF
Reverse recovery time *1	t_{rr}	$I_F = I_R$ = 100 mA, I_{rr} = 10 mA, R_L = 100 Ω		1.6		ns

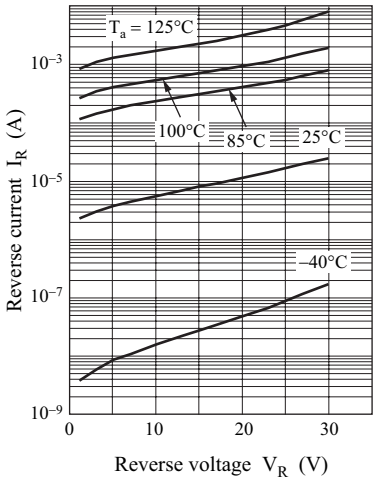
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. Absolute frequency of input and output is 250 MHz
*1: t_{rr} measurement circuit



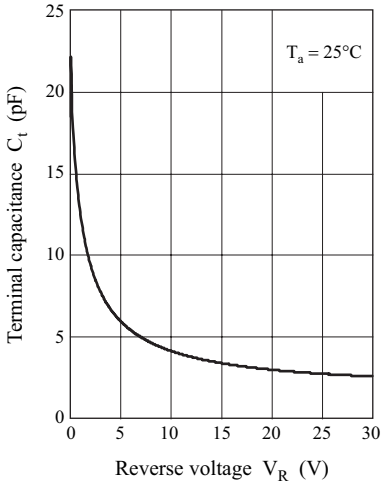
I_F — V_F



I_R — V_R

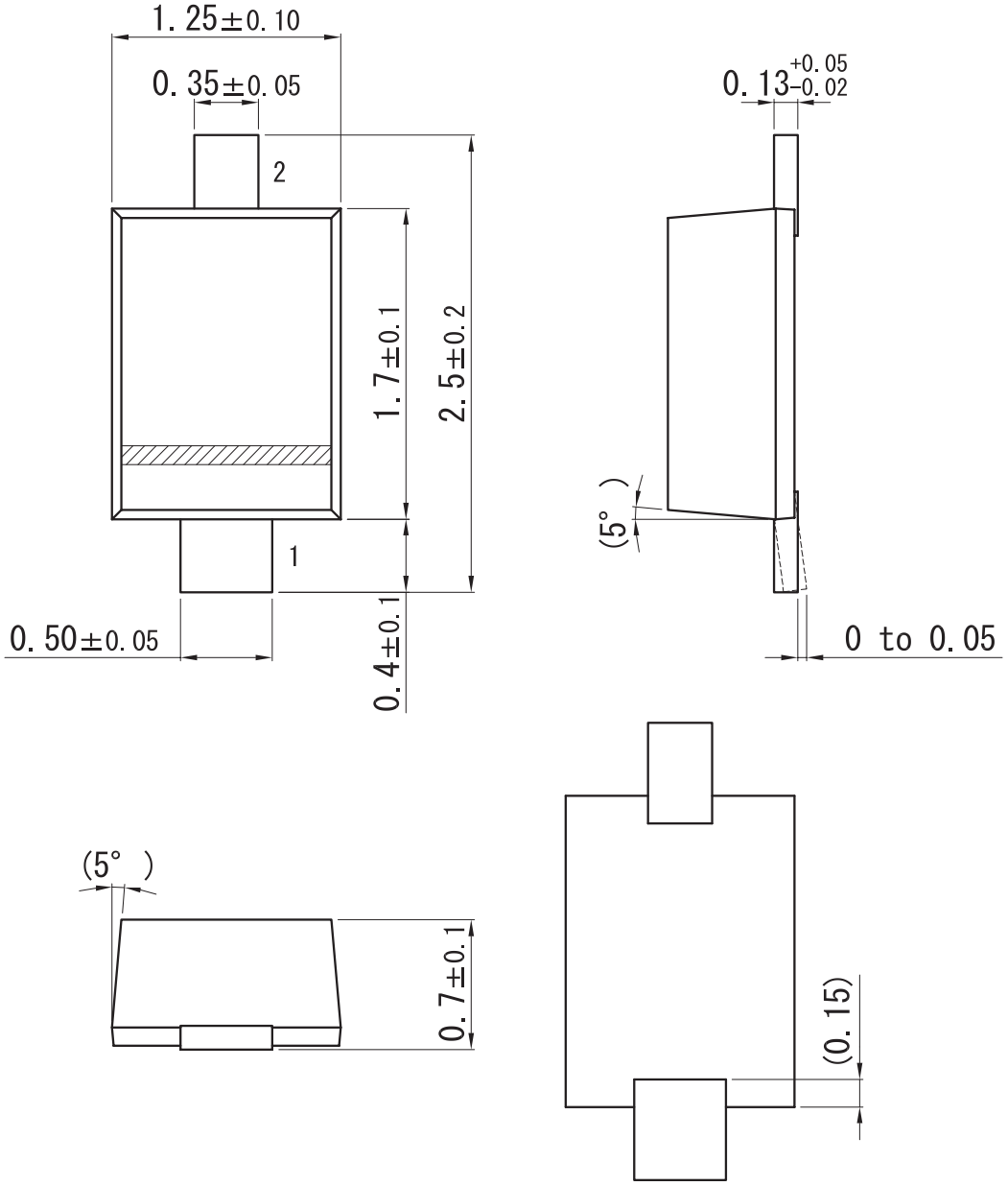


C_t — V_R

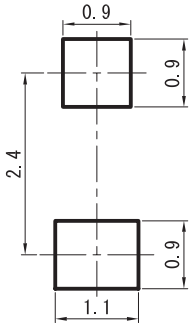


SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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