DB2J309

Silicon epitaxial planar type

For high speed switching circuits

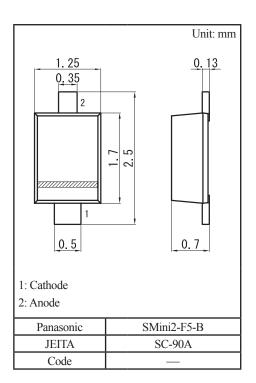
Features

- Short reverse recovery time t_{rr}
- Small reverse current I_R
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: C5

Packaging

DB2J30900L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Unit Rating Reverse voltage V_R 30 V V Repetitive peak reverse voltage V_{RRM} 30 Forward current (Average) 100 $I_{F(AV)}$ mА Peak forward current 200 mA I_{FM} Non-repetitive peak forward surge current *1 1 I_{FSM} А Junction temperature Ti 125 °C -40 to +85 Operating ambient temperature °C Topr -55 to +125 °C Storage temperature T_{stg}



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

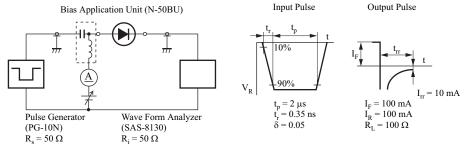
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

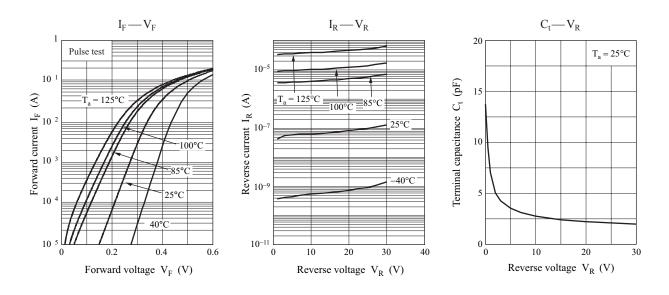
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 10 \text{ mA}$			0.44	V
	V _{F2}	$I_F = 100 \text{ mA}$			0.58	
Reverse current	I _{R1}	$V_R = 10 V$			0.3	μΑ
	I _{R2}	$V_R = 30 V$			2.0	
Terminal capacitance	Ct	$V_{\rm R} = 10 \text{ V}, f = 1 \text{ MHz}$		3.0		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		1.3		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.

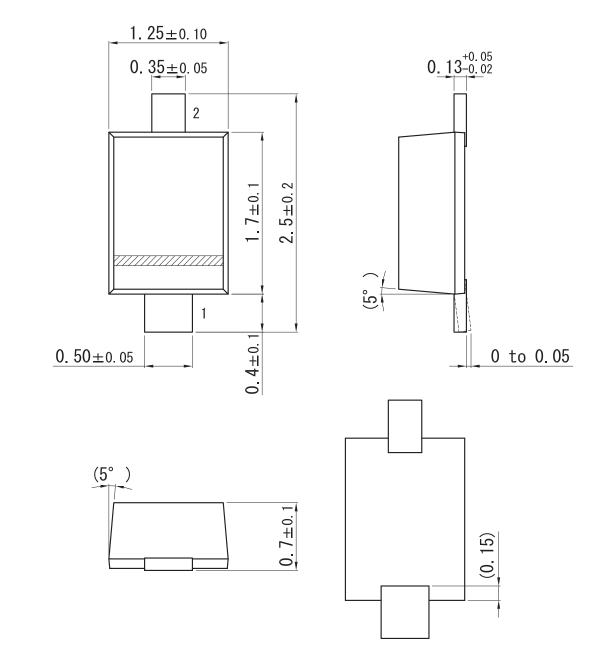
- 3. Absolute frequency of input and output is 250 MHz
- *1: t_{rr} measurement circuit



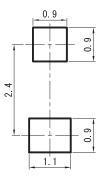


Unit: mm

SMini2-F5-B



Land Pattern (Reference) (Unit: mm)



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