DB2J310

Silicon epitaxial planar type

For high speed switching circuits

Features

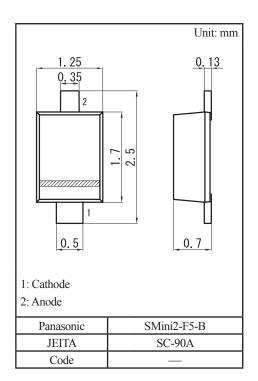
- \bullet Short reverse recovery time $t_{\rm rr}$
- \bullet Low forward voltage $V_{\rm F}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

Marking Symbol: B7

Packaging

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

Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Rating Unit V Reverse voltage V_R 30 30 V Repetitive peak reverse voltage V_{RRM} Forward current (Average) 200 mА I_{F(AV)} Peak forward current I_{FM} 300 mA Non-repetitive peak forward surge current *1 I_{FSM} 1 А Ti 125 °C Junction temperature Operating ambient temperature -40 to +85 °C Topr Storage temperature T_{stg} -55 to +125 °C



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

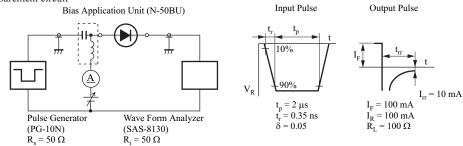
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

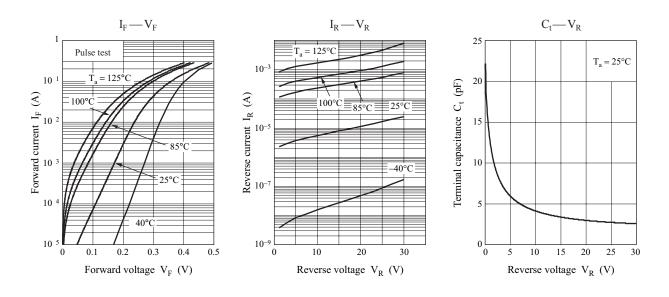
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 5 \text{ mA}$			0.27	V
	V _{F2}	$I_F = 100 \text{ mA}$			0.40	
	V _{F3}	$I_F = 200 \text{ mA}$			0.47	
Reverse current	I _{R1}	$V_R = 10 V$			20	μΑ
	I _{R2}	$V_R = 30 V$			200	
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		4.5		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		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.

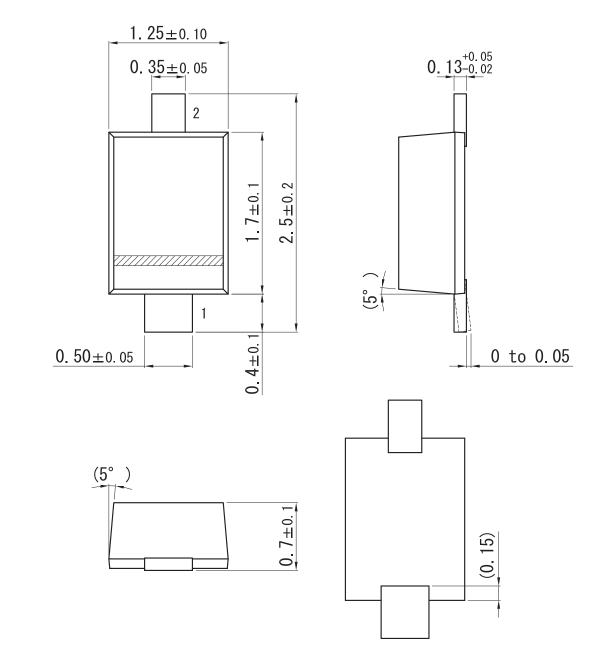
- 3. Absolute frequency of input and output is 250 MHz
- *1: trr measurement circuit



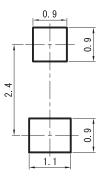


Unit: mm

SMini2-F5-B



Land Pattern (Reference) (Unit: mm)



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