# DB2J208

### Silicon epitaxial planar type

#### For high speed switching circuits

#### Features

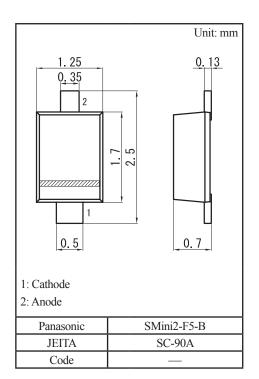
- $\bullet$  Low forward voltage  $V_{\rm F}$
- Halogen-free / RoHS compliant
- (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: B8

#### Packaging

DB2J20800L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

#### Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit	
Reverse voltage	V <sub>R</sub>	20	V	
Repetitive peak reverse voltage	V <sub>RRM</sub>	25	V	
Forward current (Average) *1	I <sub>F(AV)</sub>	500	mA	
Non-repetitive peak forward surge current *2	I <sub>FSM</sub>	2	А	
Junction temperature	Tj	125	°C	
Operating ambient temperature	T <sub>opr</sub>	-40 to +85	°C	
Storage temperature	T <sub>stg</sub>	-55 to +125	°C	



Note) \*1: Mounted on an alumina PC board

\*2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

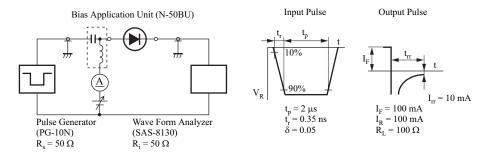
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

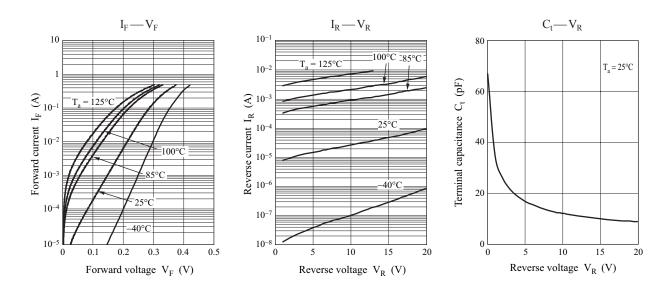
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 500 \text{ mA}$			0.42	V
Reverse current	I <sub>R</sub>	$V_R = 20 V$			200	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		12		pF
Reverse recovery time *1	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		4.3		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.

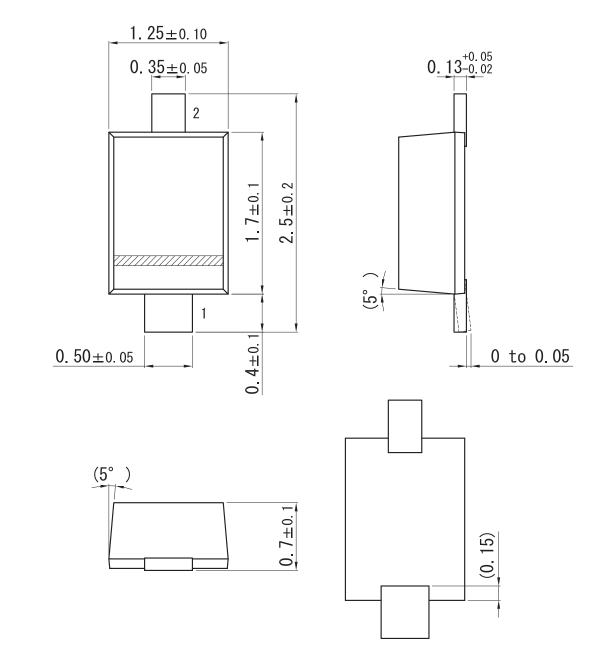
3. Absolute frequency of input and output is 250 MHz \*1: t<sub>rr</sub> measurement circuit



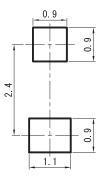


Unit: mm

SMini2-F5-B



Land Pattern (Reference) (Unit: mm)



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