# DB3J208K

### Silicon epitaxial planar type

#### For high speed switching circuits

#### Features

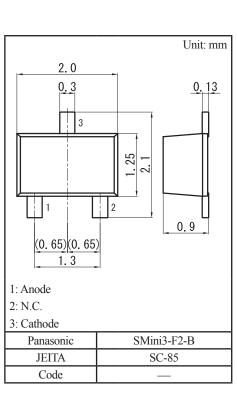
- $\bullet$  Low forward voltage  $V_{\rm F}$
- Halogen-free / RoHS compliant
- (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: 3G

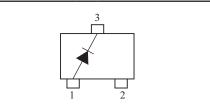
#### Packaging

DB3J208K0L 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> 700		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)

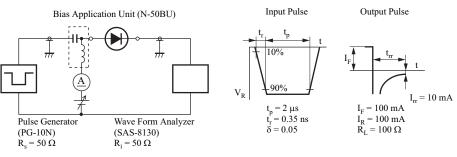
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

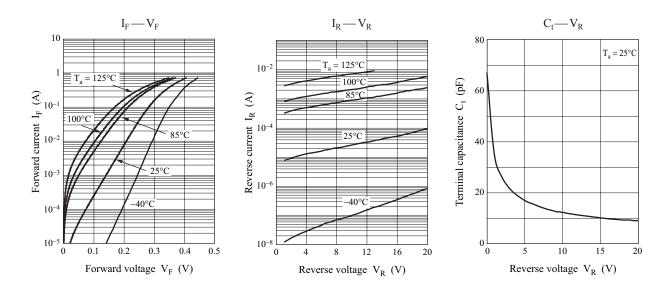
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 700 \text{ mA}$			0.45	V
Reverse current	I <sub>R</sub>	$V_R = 20 V$			200	μΑ
Terminal capacitance	Ct	$V_R = 10 V_r f = 1 MHz$		12		pF
Reverse recovery time *1	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		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.

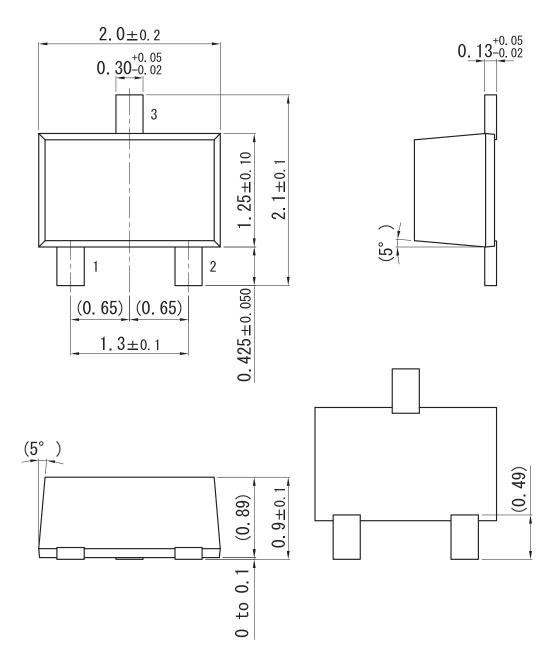
- 3. Absolute frequency of input and output is 250 MHz
  - \*1: trr measurement circuit



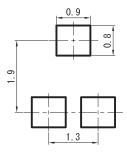


Unit: mm

SMini3-F2-B



Land Pattern (Reference) (Unit: mm)



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