Unit: mm

## **DB2J407**

### Silicon epitaxial planar type

For high frequency rectification DB3J407K in SMini2 type package

### ■ Features

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

#### ■ Marking Symbol: BB

### ■ Packaging

DB2J40700L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Symbol Rating	
Reverse voltage	V <sub>R</sub>	40	V
Maximum peak reverse voltage	$V_{RM}$	40	V
Forward current (Average)	I <sub>F(AV)</sub>	mA	
Non-repetitive peak forward surge current *1	I <sub>FSM</sub>	2	A
Junction temperature	$T_j$	125	°C
Operating ambient temperature	T <sub>opr</sub>	T <sub>opr</sub> -40 to +85	
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

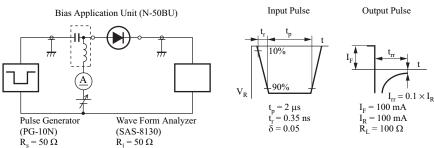
Note) \*1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

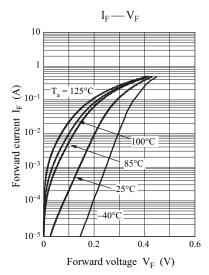
### ■ Electrical Characteristics $T_a = 25$ °C±3°C

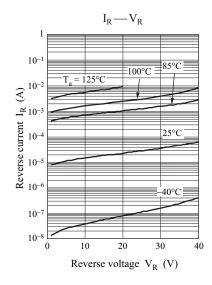
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\mathrm{F}}$	$I_F = 500 \text{ mA}$			0.55	V
Reverse current	$I_R$	$V_R = 35 \text{ V}$			100	μΑ
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		10.5		pF
Reverse recovery time *1	1 T	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R,$ $R_L = 100 \Omega$		3.6		ns

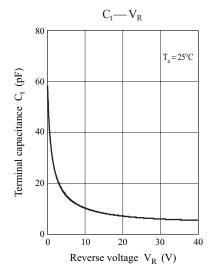
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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 400 MHz
  - $*1: t_{rr}$  measurement circuit





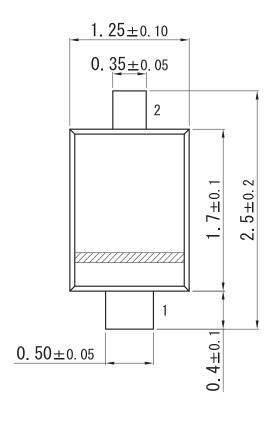


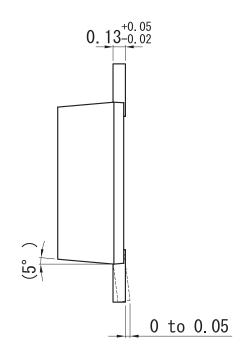


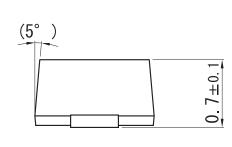
Ver. FED 2

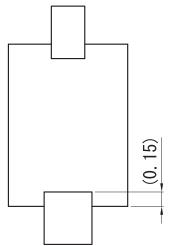
### SMini2-F5-B

Unit: mm

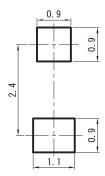








### ■ Land Pattern (Reference) (Unit: mm)



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- Техническая поддержка проекта;
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