DB2J407

Silicon epitaxial planar type

For high frequency rectification DB3J407K in SMini2 type package

Features

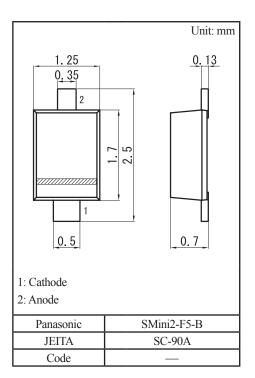
- Short reverse recovery time t_{rr}
- \bullet Low forward voltage $V_{\rm F}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: BB

Packaging

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	40	V	
Maximum peak reverse voltage	V _{RM}	40	V	
Forward current (Average)	I _{F(AV)}	I _{F(AV)} 500		
Non-repetitive peak forward surge current *1	I _{FSM}	2	А	
Junction temperature	Tj	125	°C	
Operating ambient temperature	T _{opr}	-40 to +85	°C	
Storage temperature	T _{stg}	-55 to +125	°C	





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

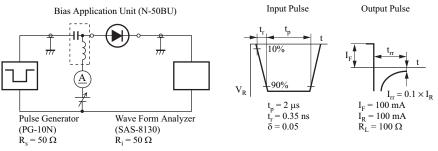
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

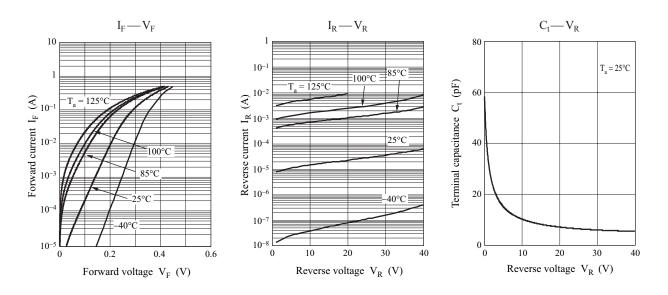
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 500 \text{ mA}$			0.55	V
Reverse current	I _R	$V_R = 35 V$			100	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		10.5		pF
Reverse recovery time *1	t _{rr}	$\begin{split} I_F = I_R = 100 \text{ mA}, \ I_{rr} = 0.1 \times I_R \ , \\ R_L = 100 \ \Omega \end{split}$		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.

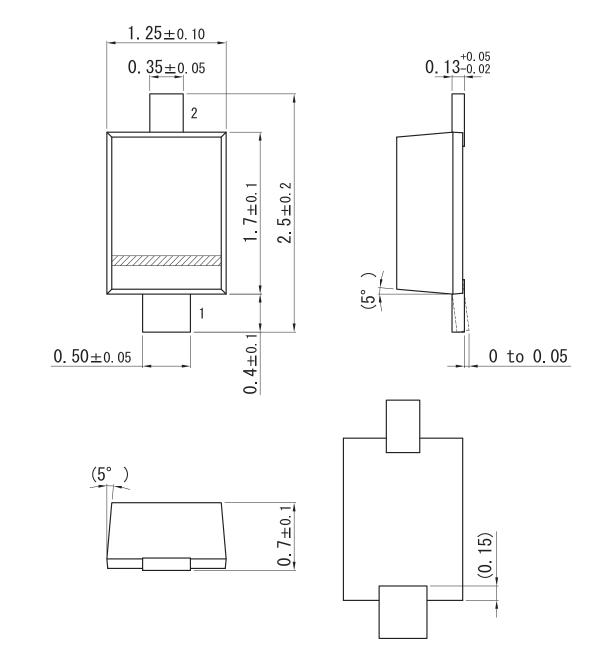
- 3. Absolute frequency of input and output is 400 MHz
 - *1: t_{rr} measurement circuit



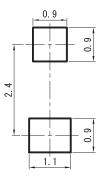


Unit: mm

SMini2-F5-B



Land Pattern (Reference) (Unit: mm)



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