DB2J209

Silicon epitaxial planar type

For high frequency rectification DB3X209K in SMini2 type package

Features

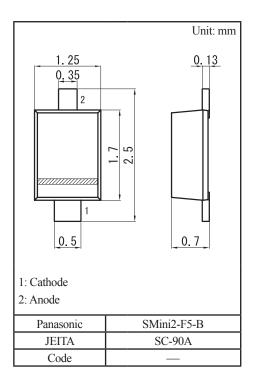
- \bullet Short reverse recovery time $t_{\rm rr}$
- \bullet Low forward voltage $V_{\rm F}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

Marking Symbol: BE

Packaging

DB2J20900L 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 _R	20	V				
Repetitive peak reverse voltage	V _{RRM}	20	V				
Forward current (Average)	I _{F(AV)}	500	mA				
Non-repetitive peak forward surge current *	I _{FSM}	3	А				
Junction temperature	Tj	T _j 125					
Storage temperature	T _{stg}	-55 to +125	°C				



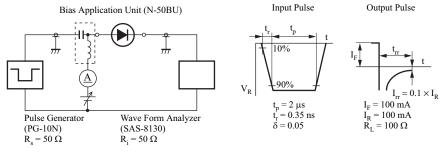
Note) *: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

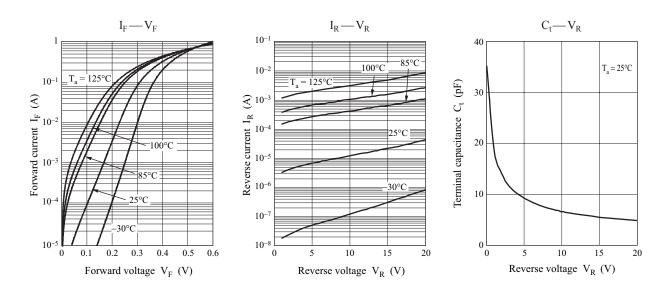
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 10 \text{ mA}$			0.3	V
	V _{F2}	$I_F = 500 \text{ mA}$			0.5	V
Reverse current	I _R	$V_{\rm R} = 10 {\rm V}$			30	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		7		pF
Reverse recovery time *	t _{rr}	$\begin{split} I_F = I_R = 100 \text{ mA}, \ I_{rr} = 0.1 \times I_R \ , \\ R_L = 100 \ \Omega \end{split}$		2.4		ns

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

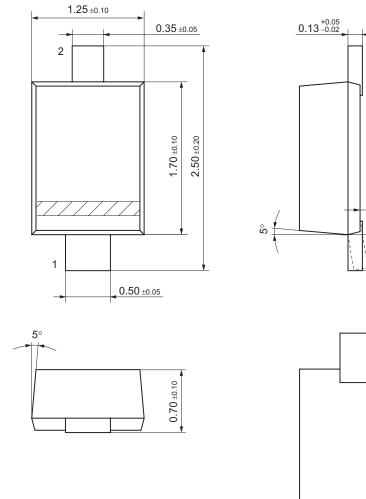
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 400 MHz
 - *: t_{rr} measurement circuit

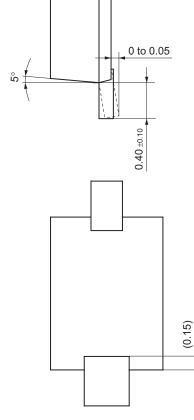




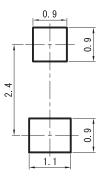
SMini2-F5-B

Unit: mm





Land Pattern (Reference) (Unit: mm)



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