DB3J201K

Silicon epitaxial planar type

For high frequency rectification DB3X201K in SMini3 type package

Features

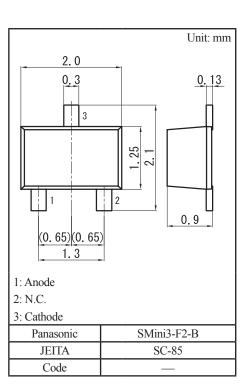
- \bullet Low forward voltage $V_{\rm F}$
- Small reverse current I_R
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: 3B

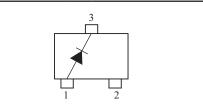
Packaging

DB3J201K0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Parameter Symbol		
V _R	20	V
V _{RRM}	20	V
I _{F(AV)}	500	mA
I _{FSM}	3	А
Tj	125	°C
T _{opr}	-40 to +85	°C
T _{stg}	-55 to +125	°C
	Symbol V _R V _{RRM} I _{F(AV)} I _{FSM} T _j T _{opr}	$\begin{tabular}{ c c c c } \hline Symbol & Rating \\ \hline V_R & 20 \\ \hline V_{RRM} & 20 \\ \hline I_{FAM} & 20 \\ \hline I_{FSM} & 500 \\ \hline I_{FSM} & 3 \\ \hline T_j & 125 \\ \hline T_{opr} & -40 to +85 \\ \hline \end{tabular}$







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

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

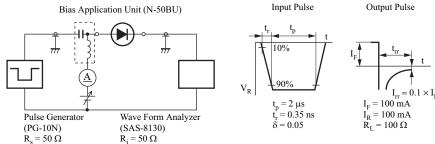
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 10 \text{ mA}$			0.4	V
	V _{F2}	$I_F = 500 \text{ mA}$			0.55	
Reverse current	I _{R1}	$V_R = 5 V$			1	μΑ
	I _{R2}	$V_R = 10 V$			10	
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		12		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		4.3		ns

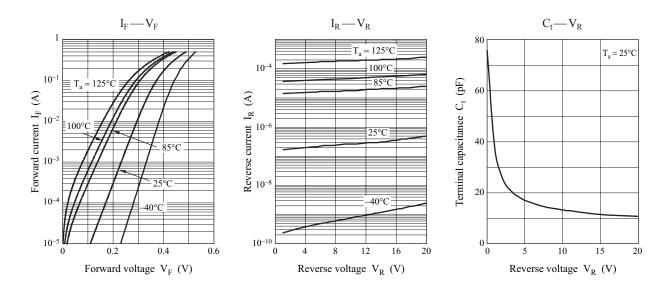
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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 $400\ \text{MHz}$

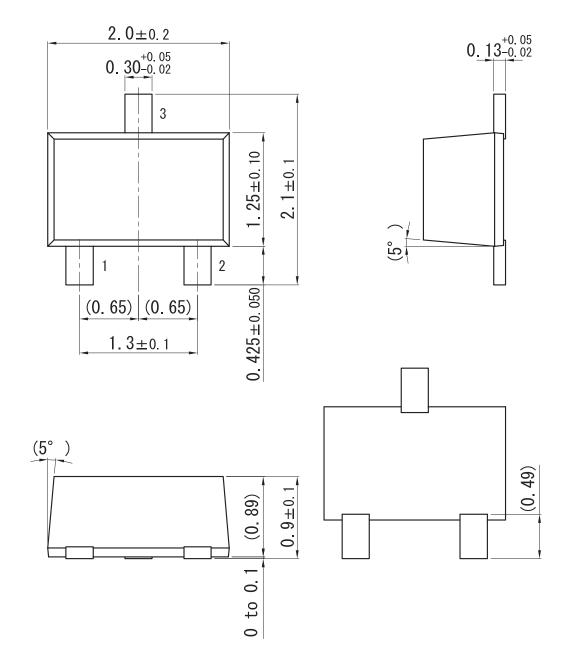
*1: trr measurement circuit



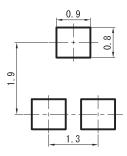


SMini3-F2-B

Unit: mm



Land Pattern (Reference) (Unit: mm)



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