DB3X313K

Silicon epitaxial planar type

For small current rectification DB2J313 in Mini3 type package

■ Features

- Low forward voltage V_F and small reverse current I_R
- Low terminal capacitance C_t
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 4J

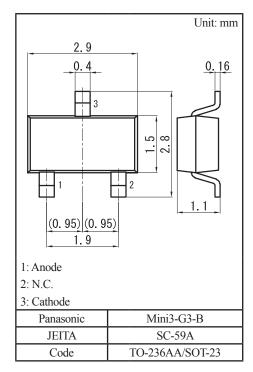
■ Packaging

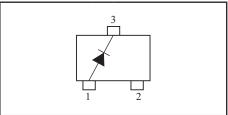
DB3X313K0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	30	V	
Repetitive peak reverse voltage	V _{RRM}	30	V	
Forward current (Average)	I _{F(AV)}	200	mA	
Peak forward current	I_{FM}	300	mA	
Non-repetitive peak forward surge current *1	I _{FSM}	1	A	
Junction temperature	T _j	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)



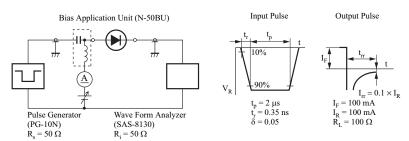


■ Electrical Characteristics $T_a = 25$ °C±3°C

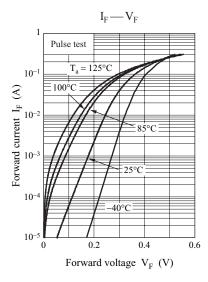
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 200 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 30 \text{ V}$			50	μΑ
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		3.8		pF
Reverse recovery time *1	t _{rr}	$\begin{aligned} I_F &= I_R = 100 \text{ mA}, \ I_{rr} = 0.1 \times I_R, \\ R_L &= 100 \ \Omega \end{aligned}$		1.5		ns

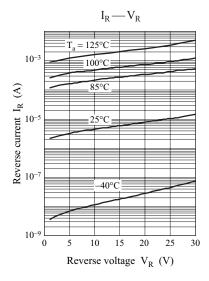
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

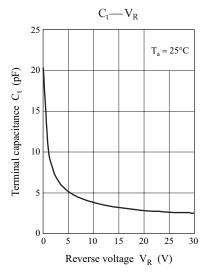
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 1 $\ensuremath{\text{GHz}}$
 - *1: t_{rr} measurement circuit



DB3X313K Panasonic

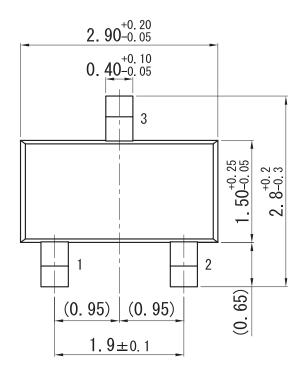


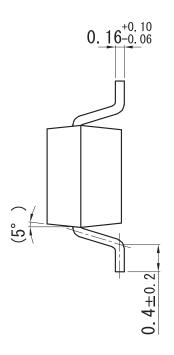


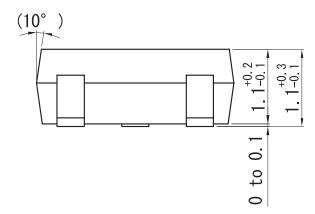


Mini3-G3-B

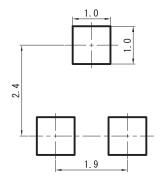
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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