DB3X313N

Silicon epitaxial planar type

For small current rectification

Features

- \bullet Low forward voltage $V_{\rm F}$ and small reverse current $I_{\rm R}$
- \bullet Low terminal capacitance C_t
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

Marking Symbol: 4N

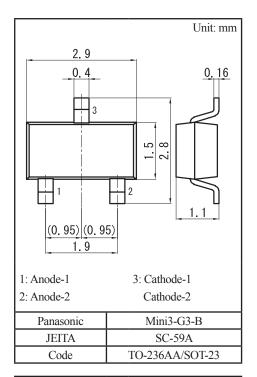
Basic Part Number

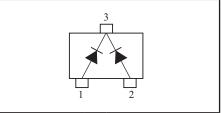
Dual DB2J313 (Common Cathode)

Packaging

DB3X313N0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Unit Rating Reverse voltage V_R 30 V Repetitive peak reverse voltage 30 V V_{RRM} Single 200 Forward current (Average) mA I_{F(AV)} Double *1 130 Single 300 Peak forward current I_{FM} mA Double *1 220 Single 1.0 Non-repetitive peak reverse I_{FSM} А surge voltage *2 Double *1 0.7 125 Junction temperature Ti °C Operating ambient temperature Topr -40 to +85 °C -55 to +125 Storage temperature °C T_{stg}





Note) *1: Value of each diode in double diodes used.

*2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

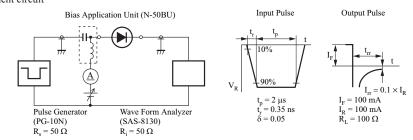
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

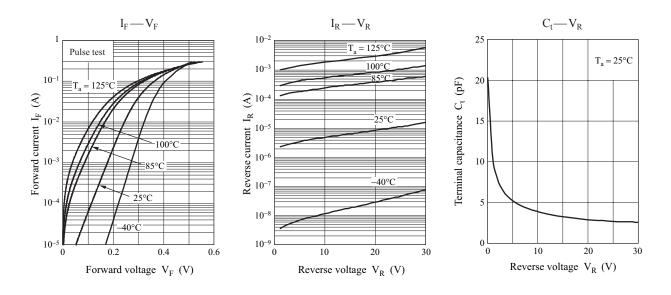
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_{\rm F} = 200 {\rm mA}$			0.55	V
Reverse current	I _R	$V_R = 30 V$			50	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		3.8		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		1.5		ns

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

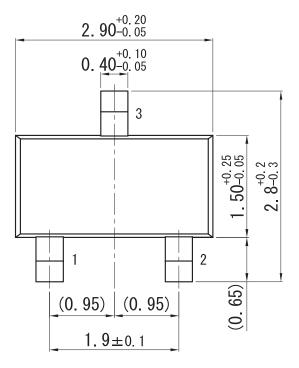
This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
Absolute frequency of input and output is 1 GHz

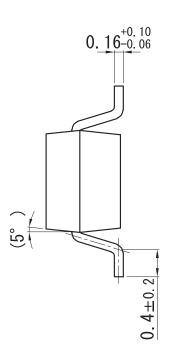
 Absolute frequency of input and output is 1 GH *1: t_{rr} measurement circuit

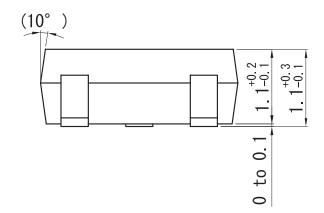




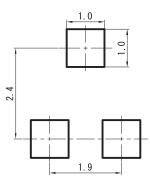
Mini3-G3-B







Land Pattern (Reference) (Unit: mm)



Unit: mm

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