Panasonic

DB3Y313KEL

Silicon epitaxial planar type

For small current rectification DB3X313K in NMini3 type package

Features

- · Low forward voltage and small reverse leakage current
- · Low terminal capacitance Ct
- · Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol :4J

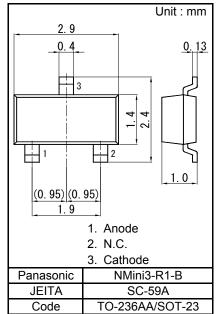
■ Packaging

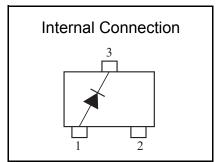
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	30	V
Repctitive peak reverse voltage	VRRM	30	V
Forward current (Average)	IF (AV)	200	mA
Peak forward current	IFM	300	mA
Non-repetitive peak forward surge current *1	IFSM	1	Α
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +125	°C

Note) *1 The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)





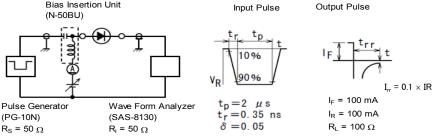
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 200 mA			0.55	V
Reverse current	IR	VR = 30 V			50	μΑ
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		3.8		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1 × IR RL = 100 Ω		1.5		ns

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 1000 MHz.

4. *1 trr measurement circuit Bias Insertion Unit Input Pulse (N-50BU)



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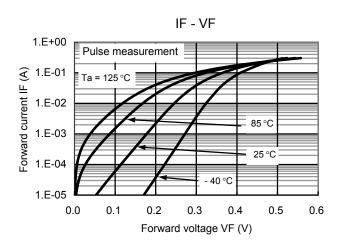
Established: 2013-04-27 : ####-##-## Revised

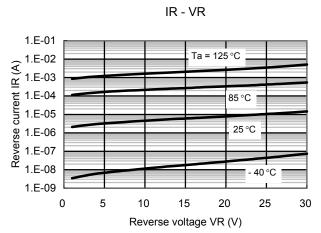
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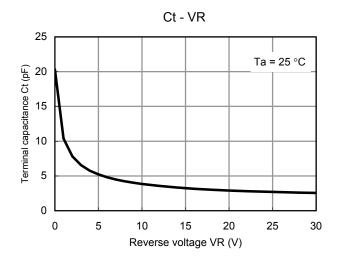
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Schottky Barrier Diode DB3Y313KEL

Technical Data (reference)







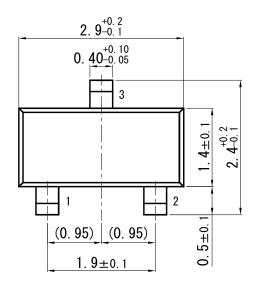
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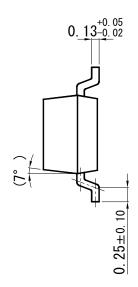
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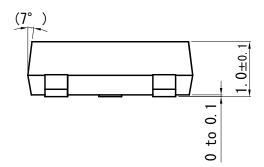
Schottky Barrier Diode DB3Y313KEL

NMini3-R1-B

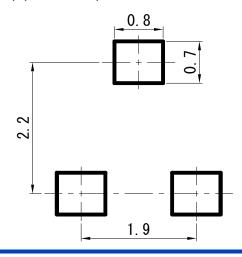








■ Land Pattern (Reference) (Unit: mm)



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