Schottky Barrier Diode

Panasonic DB4J406K0R

DB4J406K0R

Silicon epitaxial planar type

For high speed switching circuits

■ Features

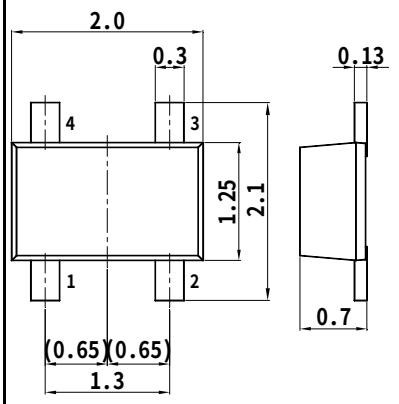
- Small reverse current IR
- Short reverse recovery time trr
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 4B

■ Basic Part Number :
Dual DB2J406 (Parallel)

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

Unit: mm



1. Anode1
2. Anode2
3. Cathode2
4. Cathode1

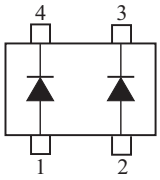
Panasonic	SMini4-F3-B
JEITA	SC-113BB
Code	—

■ Absolute Maximum Ratings Ta = 25 °C

Parameter		Symbol	Rating	Unit
Reverse voltage		VR	40	V
Repetitive peak reverse voltage		VRRM	40	V
Forward current	Singie	IF	100	mA
	Doubie *1		75	mA
Peak forward current	Singie	IFM	300	mA
	Doubie *1		225	mA
Non-repetitive peak forward surge current *2	Singie	IFSM	1	A
	Doubie *1		0.75	A
Junction temperature		Tj	125	°C
Operating ambient temperature		Topr	-40 to +85	°C
Storage temperature		Tstg	-55 to +125	°C

Note: *1 Value of each diode in double used.
*2 The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

Internal Connection



Established : 2010-03-24
Revised : 2013-12-13

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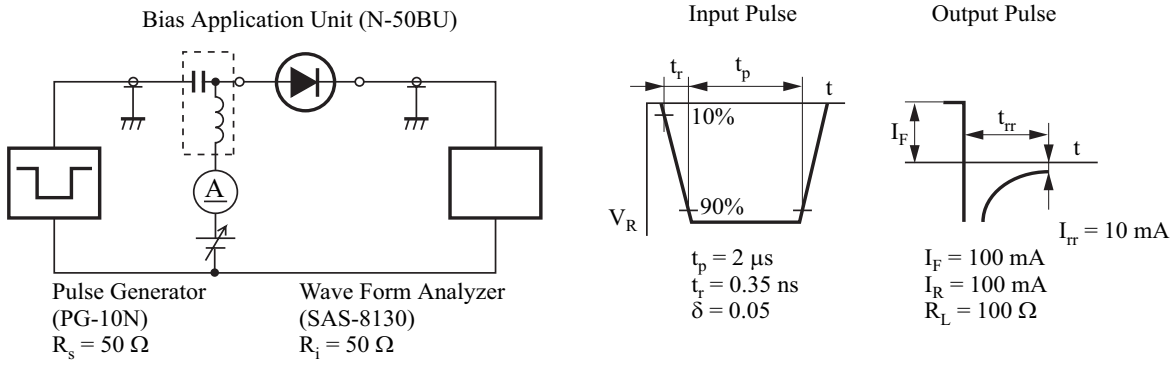
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 100 mA			0.6	V
Reverse current	IR	VR = 40 V			5	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		2.2		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 10 mA RL = 100 Ω		0.9		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 250 MHz.
4. *1 trr test circuit



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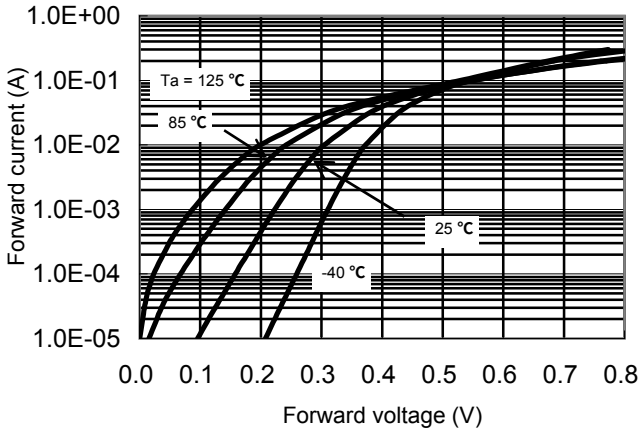
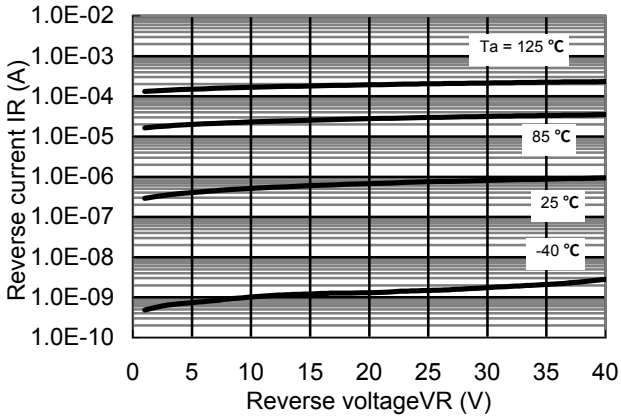
Technical Data (reference)

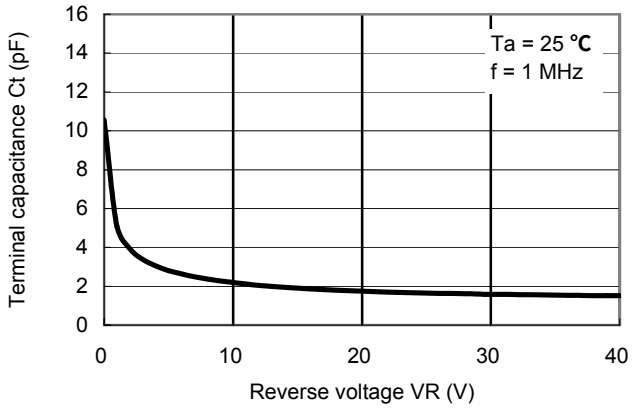
IF - VF



IR - VR



Ct - VR



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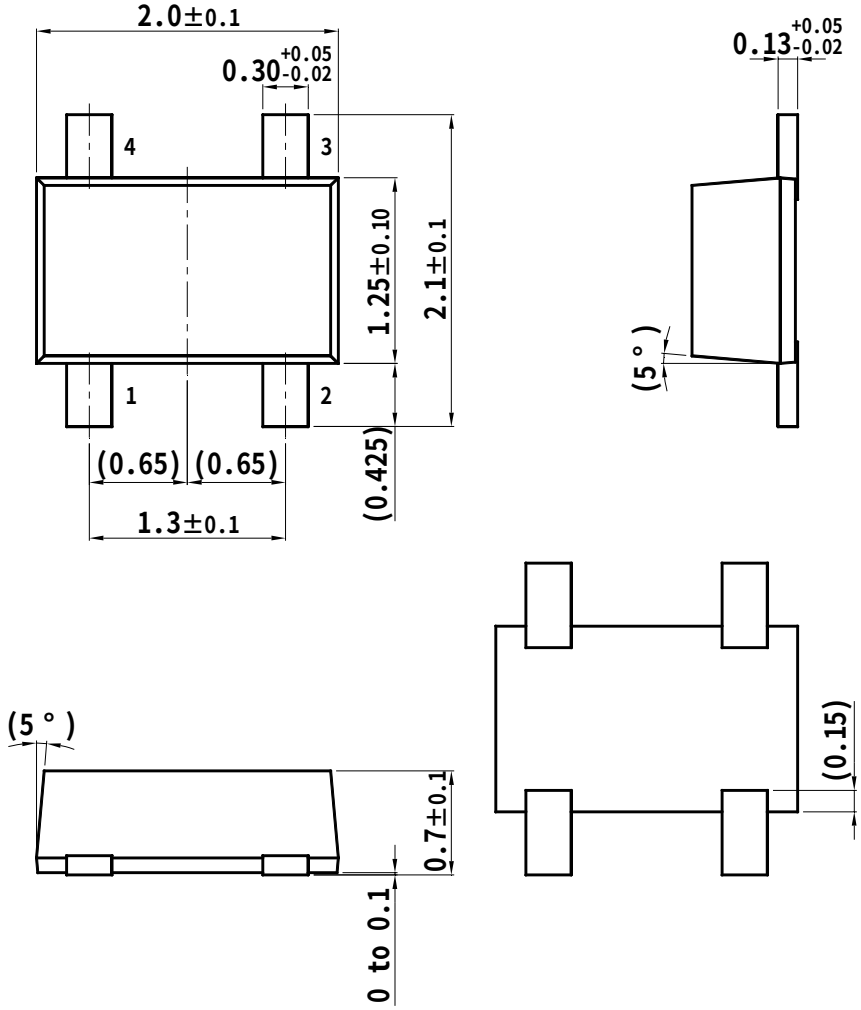
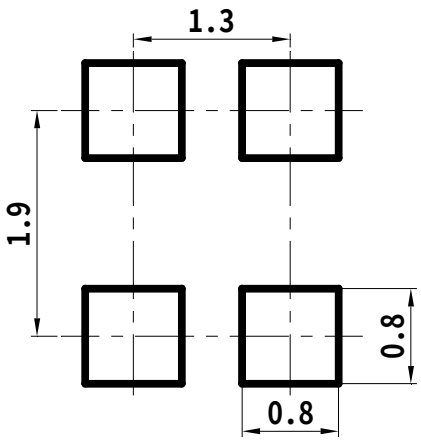
SMini4-F3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9