

Schottky Barrier Diode  
**DB5S406K0R**

**Panasonic**

**DB5S406K0R**

Silicon epitaxial planar type

For high speed switching circuits  
DB4J406K in SSMini5 type package

■ Features

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

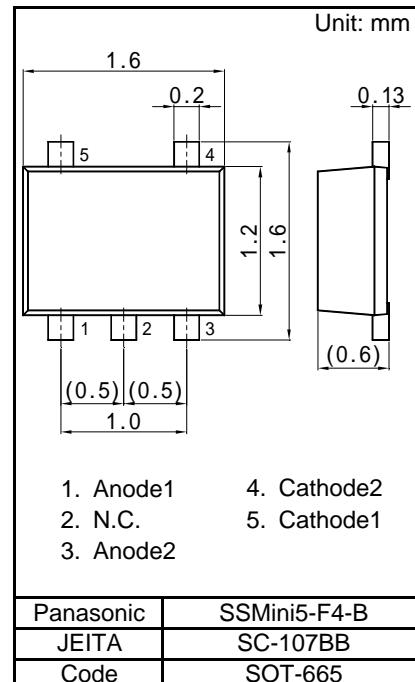
■ Marking Symbol: 4B

■ Basic Part Number :

Dual DB2S406 (Parallel)

■ Packaging

Embossed type (Thermo-compression sealing) : 8 000 pcs / reel (standard)



Panasonic	SSMini5-F4-B
JEITA	SC-107BB
Code	SOT-665

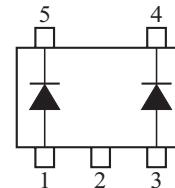
■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Repetitive peak reverse voltage	VRM	40	V
Forward current (Average)	IF	100	mA
		75	
Peak forward current	IFM	300	mA
		225	
Non-repetitive peak forward surge current <sup>*2</sup>	IFSM	1	A
		0.75	
Junction temperature	T <sub>j</sub>	125	°C
Operating ambient temperature	T <sub>opr</sub>	-40 to +85	°C
Storage temperature	T <sub>stg</sub>	-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

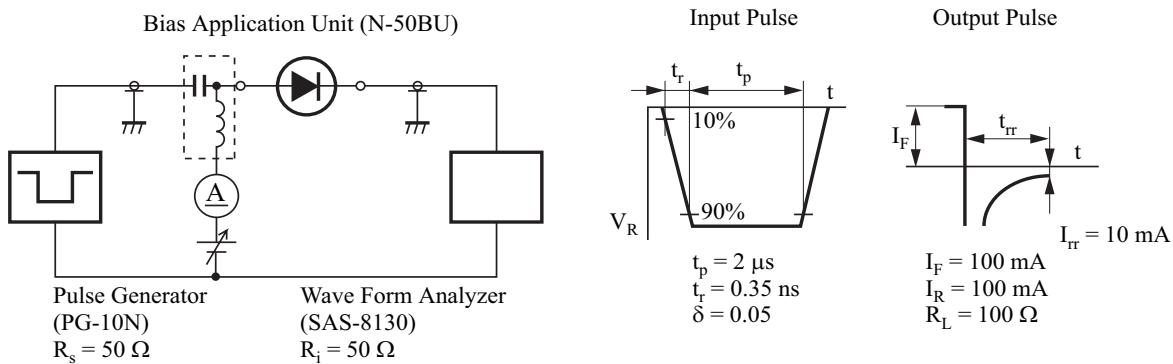


■ Electrical Characteristics  $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF1	IF = 1 mA			0.35	V
	VF2	IF = 100 mA			0.60	
Reverse current	IR	VR = 40 V			5	$\mu\text{A}$
Terminal capacitance	C <sub>t</sub>	VR = 10 V, f = 1 MHz		2.2		pF
Reverse recovery time *1	t <sub>rr</sub>	IF = IR = 100 mA, Irr = 10 mA RL = 100 $\Omega$		0.9		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 250 MHz.
- \*1 trr test circuit

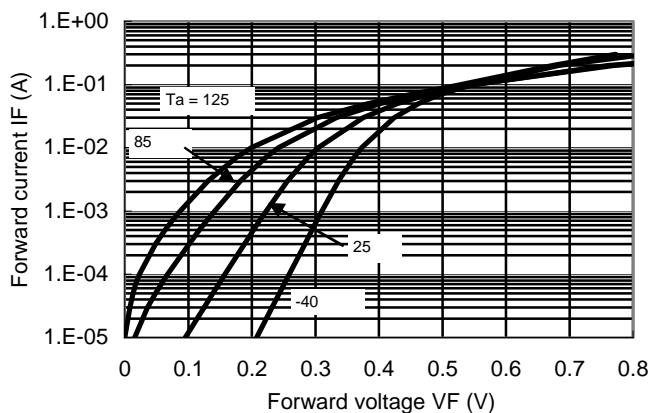


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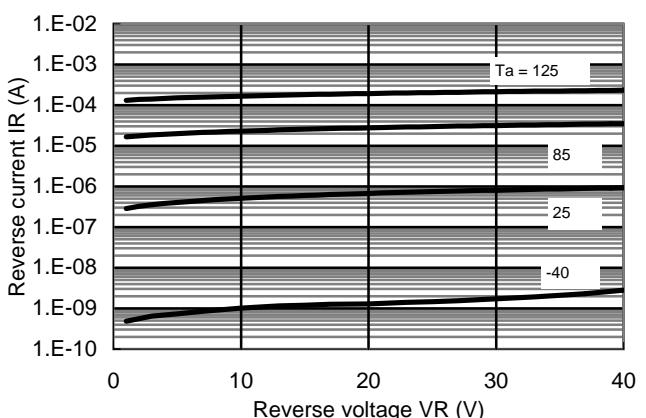
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Technical Data ( reference )

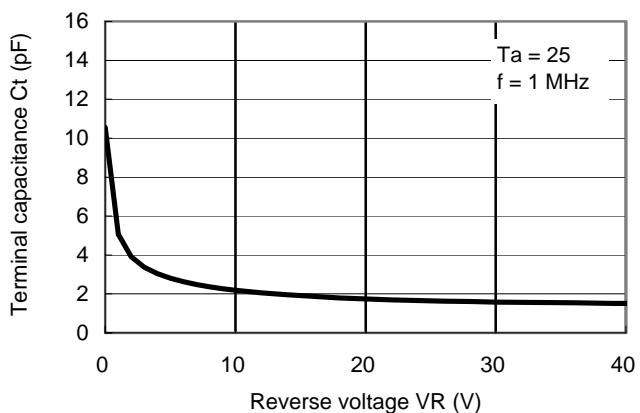
IF - VF



IR - VR

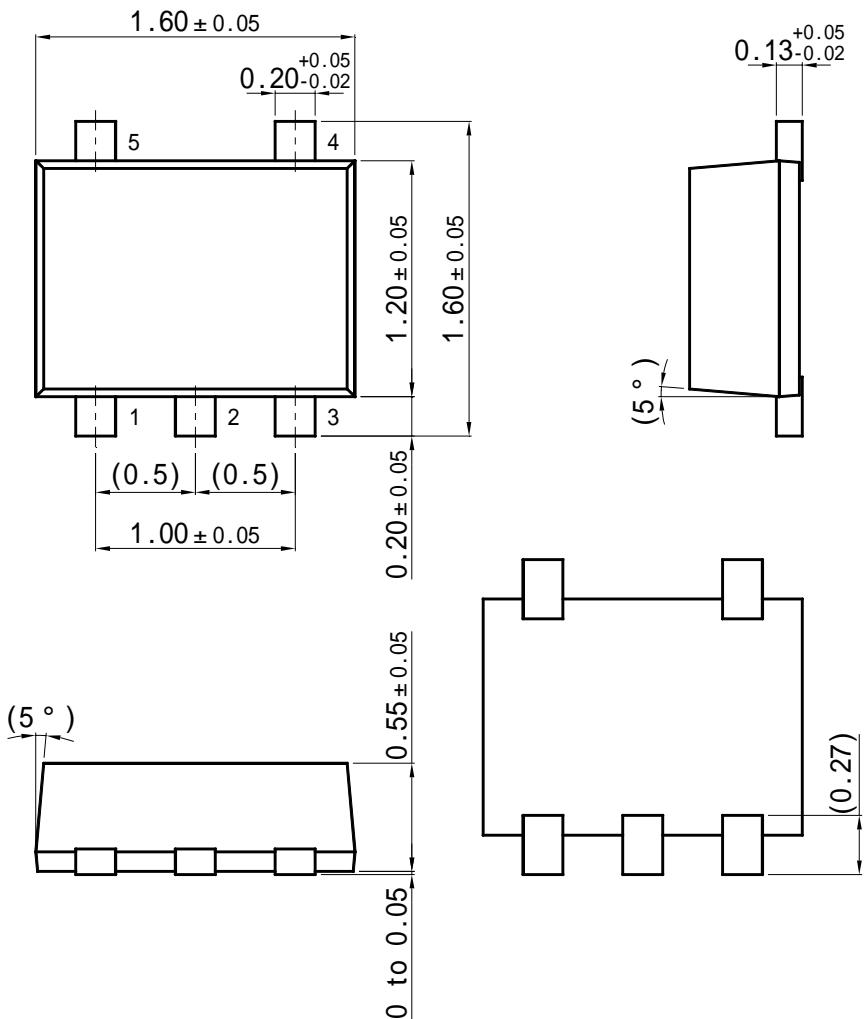


Ct - VR

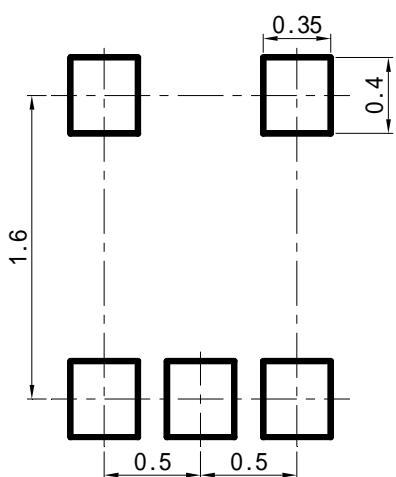


SSMini5-F4-B

Unit: mm



### ■ Land Pattern (Reference) (Unit: mm)



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