

Panasonic

DB5S406K0R

Silicon epitaxial planar type

For high speed switching circuits
DB4J406K in SSMini5 type package

■ Features

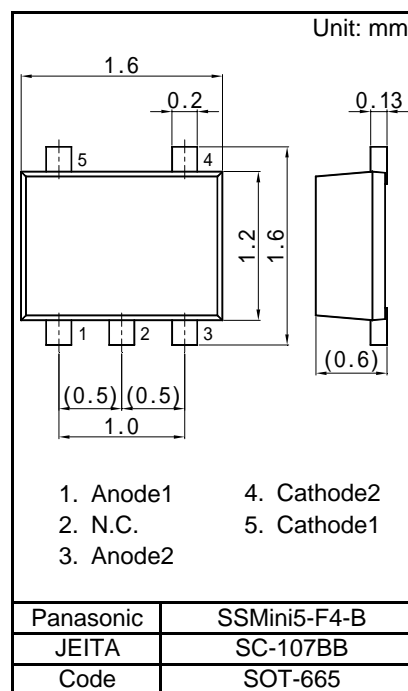
- Small reverse current I_R
- Short reverse recovery time t_{rr}
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 4B

■ Basic Part Number :
Dual DB2S406 (Parallel)

■ Packaging

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

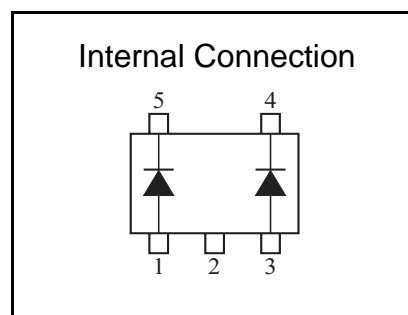


■ Absolute Maximum Ratings $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Repetitive peak reverse voltage	VRRM	40	V
Forward current (Average)	Singie	100	mA
	Doubie ^{*1}	75	
Peak forward current	Singie	300	mA
	Doubie ^{*1}	225	
Non-repetitive peak forward surge current ^{*2}	Singie	1	A
	Doubie ^{*1}	0.75	
Junction temperature	Tj	125	$^{\circ}\text{C}$
Operating ambient temperature	Topr	-40 to +85	$^{\circ}\text{C}$
Storage temperature	Tstg	-55 to +125	$^{\circ}\text{C}$

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)



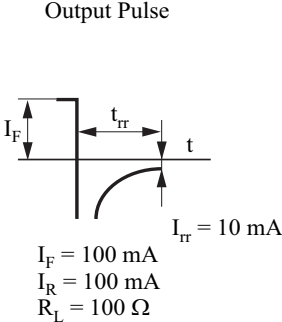
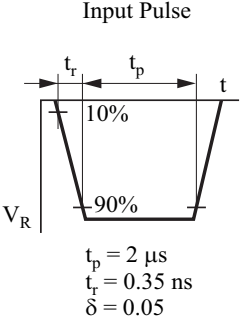
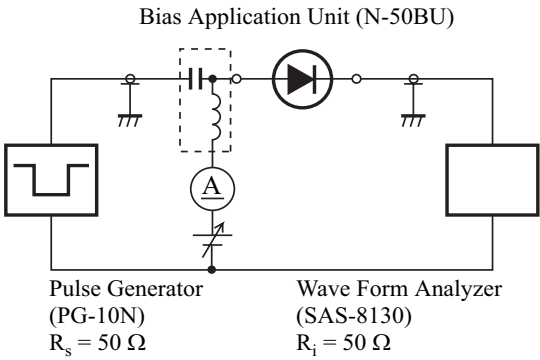
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Schottky Barrier Diode
DB5S406K0R

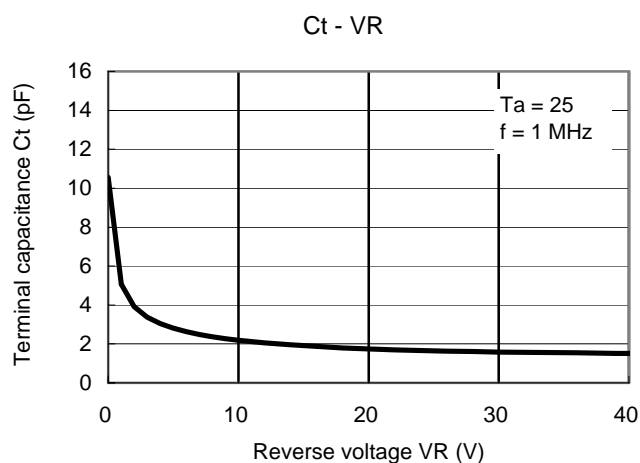
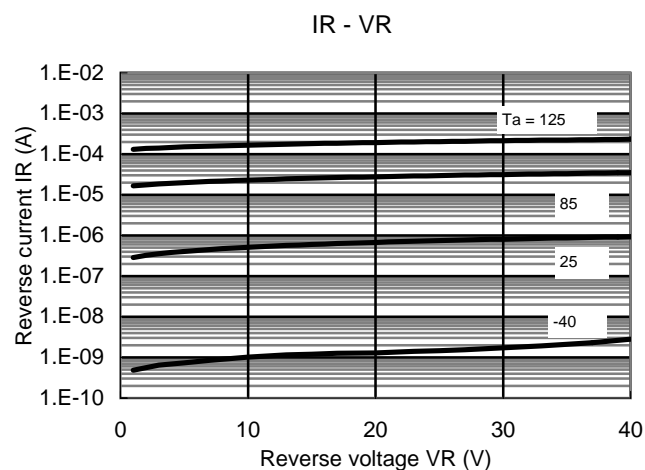
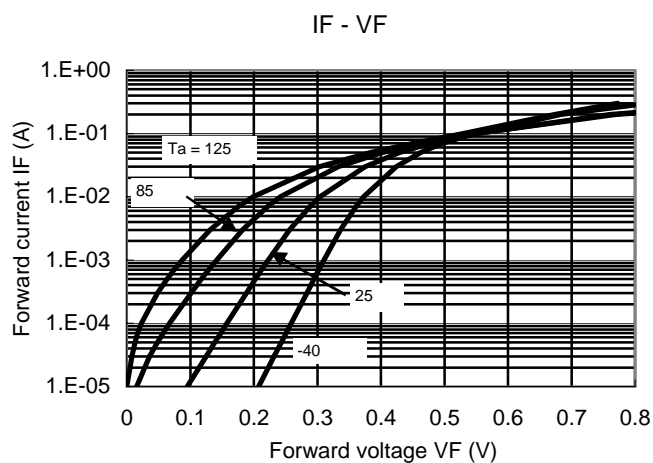
■ Electrical Characteristics Ta = 25 °C ± 3 °C

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	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



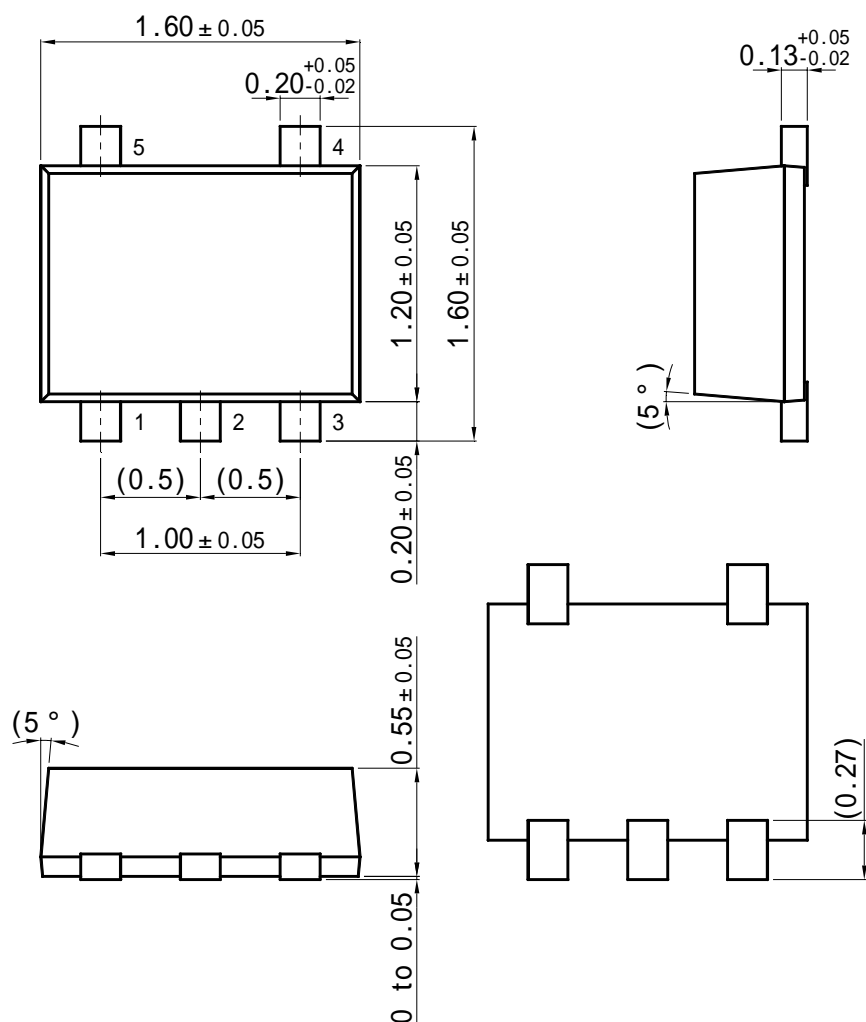
Technical Data (reference)



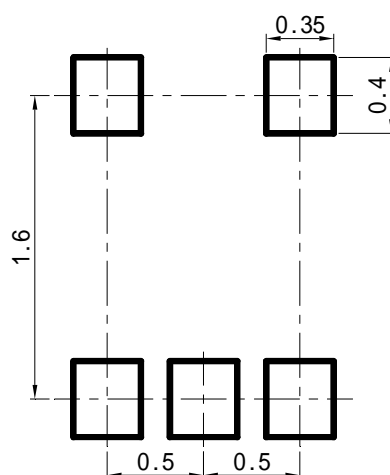
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SSMini5-F4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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