

# DB5S310K

## Silicon epitaxial planar type

For high speed switching circuits  
DB4J310K in SSMINI5 type package

### ■ Features

- Short reverse recovery time  $t_{rr}$
- Low forward voltage  $V_F$
- Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

### ■ Marking Symbol: 4A

### ■ Basic Part Number

Dual DB2J310 (Parallel)

### ■ Packaging

DB5S310K0R Embossed type (Thermo-compression sealing): 8000 pcs / reel (standard)

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

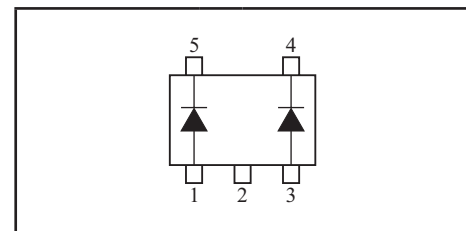
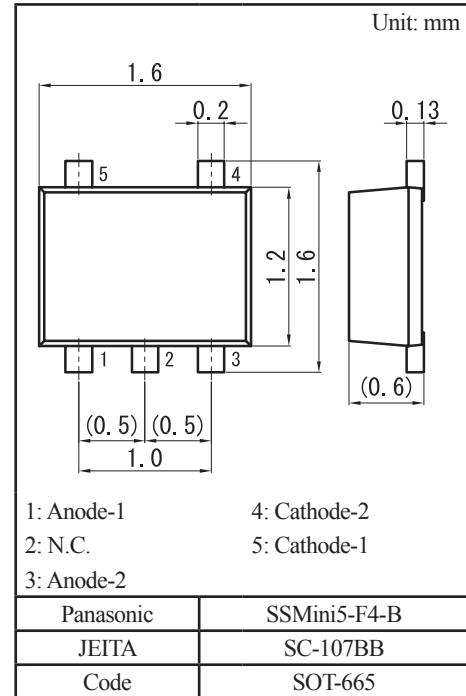
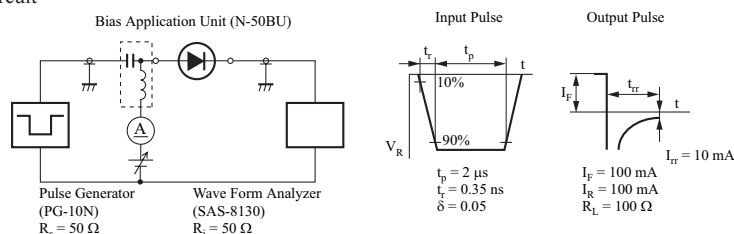
Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Repetitive peak reverse voltage	$V_{RRM}$	30	V
Forward current (Average)	Single	200	mA
	Double *1	150	mA
Peak forward current	Single	300	mA
	Double *1	225	mA
Non-repetitive peak forward surge current *2	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Operating ambient temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

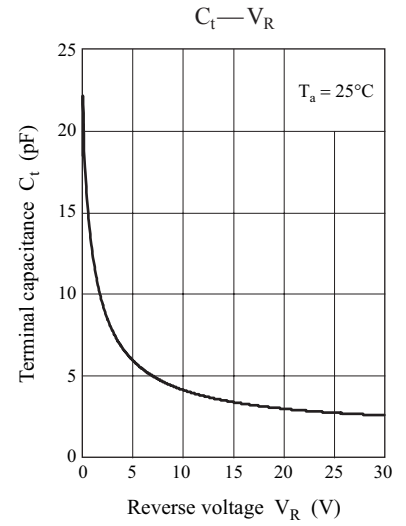
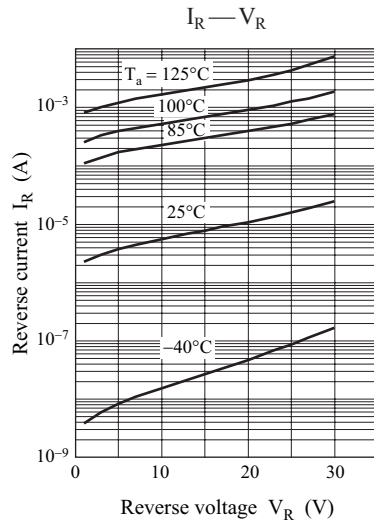
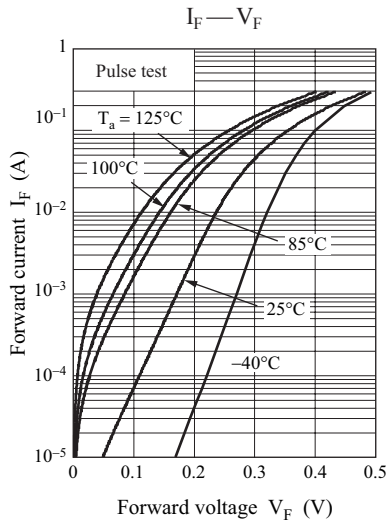
Note) \*1: Value of each diode in double diodes used.  
\*2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 5 \text{ mA}$			0.27	V
	$V_{F2}$	$I_F = 100 \text{ mA}$			0.40	
	$V_{F3}$	$I_F = 200 \text{ mA}$			0.47	
Reverse current	$I_{R1}$	$V_R = 10 \text{ V}$			20	$\mu\text{A}$
	$I_{R2}$	$V_R = 30 \text{ V}$			200	
Terminal capacitance	$C_t$	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		4.5		pF
Reverse recovery time *1	$t_{rr}$	$I_F = I_R = 100 \text{ mA}, I_{tr} = 10 \text{ mA}, R_L = 100 \Omega$		1.6		ns

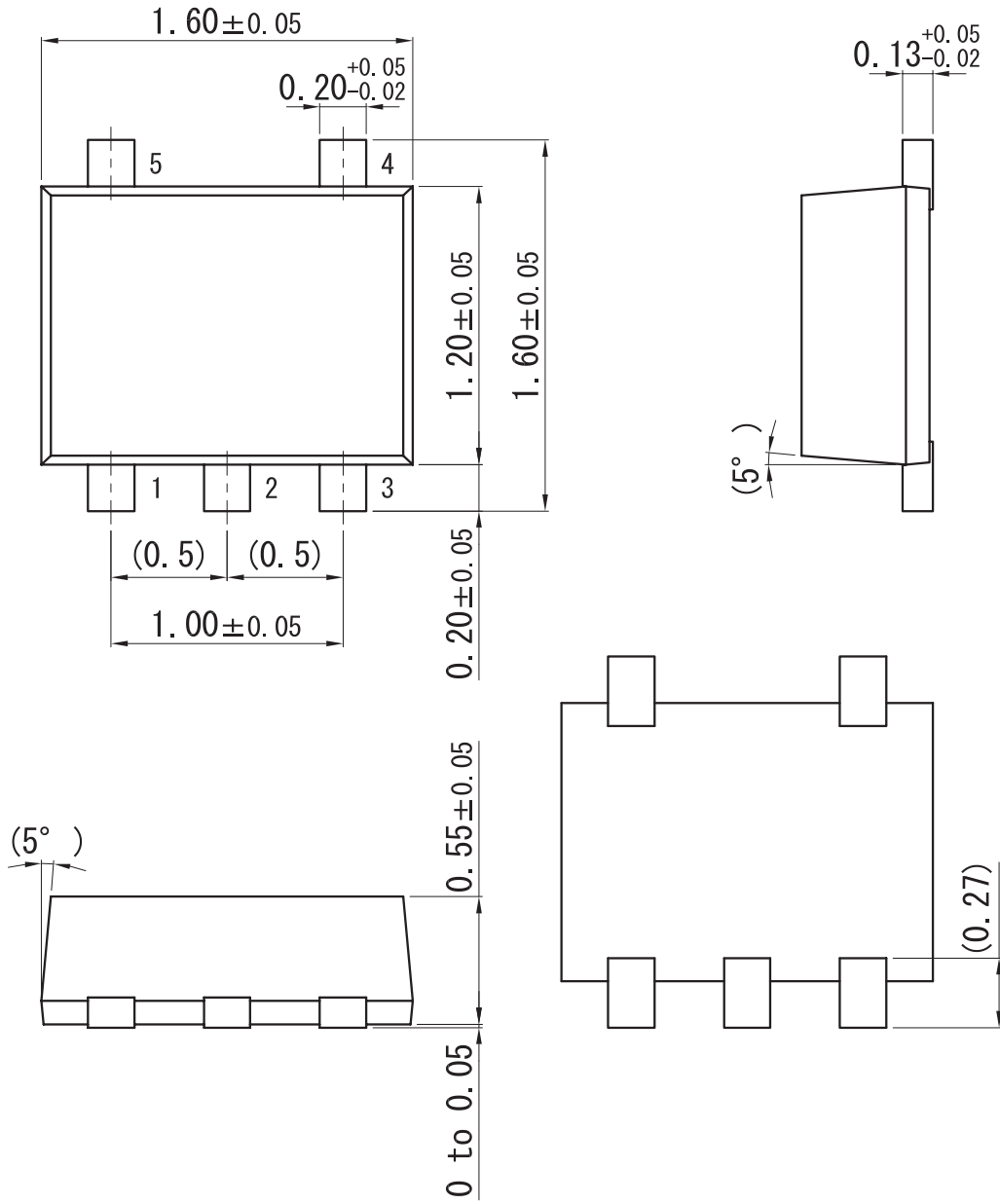
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.  
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.  
3. Absolute frequency of input and output is 250 MHz  
\*1:  $t_{rr}$  measurement circuit



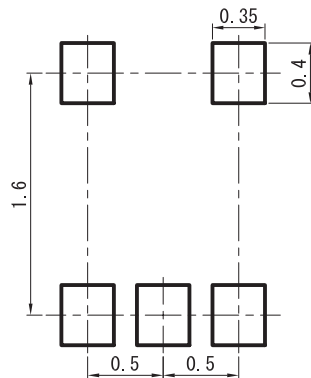


SSMini5-F4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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