DB4J310K

Silicon epitaxial planar type

For high speed switching circuits

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

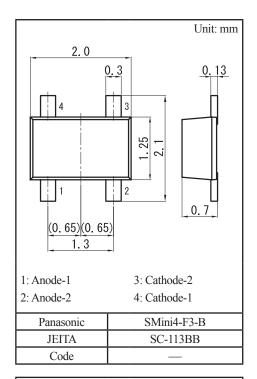
■ Basic Part Number Dual DB2J310 (Parallel)

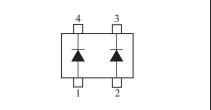
Packaging

DB4J310K0R Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	30	V	
Repetitive peak reverse voltage		V _{RRM}	30	V
Forward current (Average)	Single	т	200	mA
	Double *1	I _{F(AV)}	150	mA
Peak forward current	Single	т	300	mA
	Double *1	- I _{FM}	225	mA
Non-repetitive peak forward sur	I _{FSM}	1	А	
Junction temperature	Tj	125	°C	
Operating ambient temperature		T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +125	°C	





Note) *1: Value of each diode in double diodes used.

*2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

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

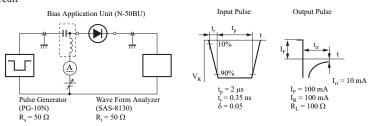
Parameter	Symbol	Conditions	Min	Тур	Max	Unit			
Forward voltage	V _{F1}	$I_F = 5 \text{ mA}$			0.27	V			
	V _{F2}	$I_F = 100 \text{ mA}$			0.40				
	V _{F3}	$I_F = 200 \text{ mA}$			0.47				
Reverse current	I _{R1}	$V_R = 10 V$			20	μΑ			
	I _{R2}	$V_R = 30 V$			200				
Terminal capacitance	Ct	$V_{R}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

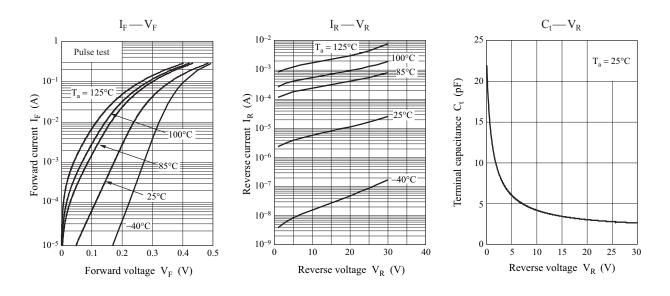
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

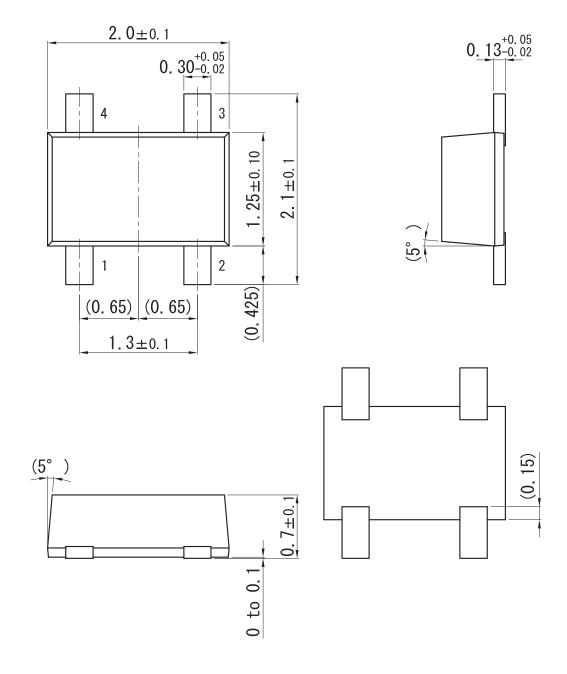
*1: trr measurement circuit



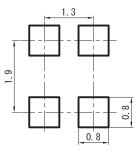


SMini4-F3-B

Unit: mm



Land Pattern (Reference) (Unit: mm)



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