# **DB4X314F**

# Silicon epitaxial planar type

For high speed switching circuits

#### ■ Features

- Short reverse recovery time t<sub>rr</sub>
- ullet Small reverse current  $I_R$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

# ■ Marking Symbol: 5C

#### ■ Basic Part Number

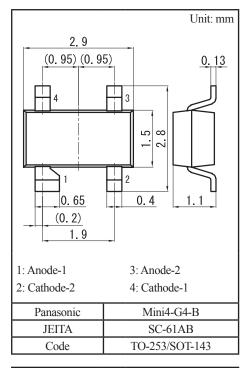
Dual DB2J314 (Parrarel, oppositely arranged)

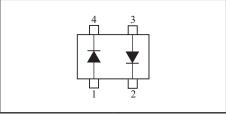
# ■ Packaging

DB4X314F0R Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse voltage		V <sub>R</sub>	30	V	
Maximum peak reverse voltage		V <sub>RM</sub>	30	V	
Forward current	Single	T.	30	mA	
	Series	I <sub>F</sub>	20		
Peak forward current	Single	т	150	4	
	Series	$I_{FM}$	110	mA	
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	



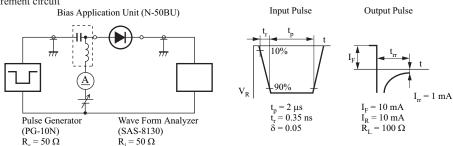


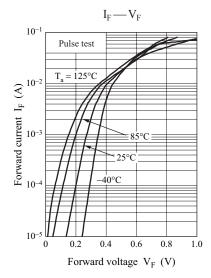
# ■ Electrical Characteristics T<sub>a</sub> = 25°C±3°C

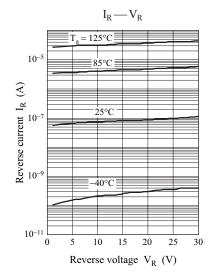
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 1 \text{ mA}$			0.4	V
	$V_{F2}$	$I_F = 30 \text{ mA}$			1.0	
Reverse current	$I_R$	$V_R = 30 \text{ V}$			300	nA
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *1	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$		1.0		ns

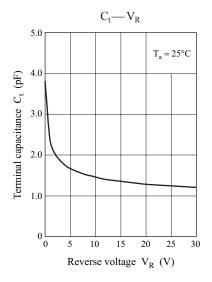
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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 2 GHz
- 4. \*1: t<sub>rr</sub> measurement circuit





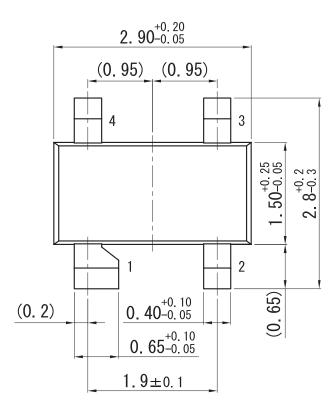


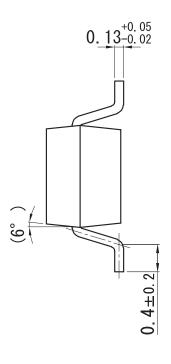


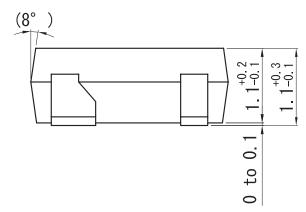
Ver. CED 2

Mini4-G4-B

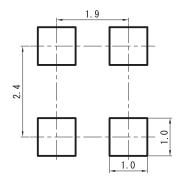
Unit: mm







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



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