# DB3X314F

### Silicon epitaxial planar type

For high speed switching circuits

#### Features

- $\bullet$  Short reverse recovery time  $t_{\rm rr}$
- 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

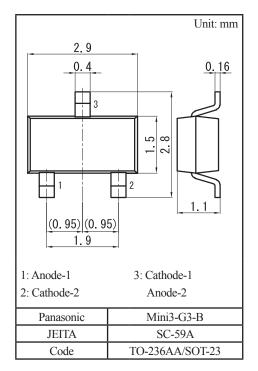
Dual DB2J314 (Series)

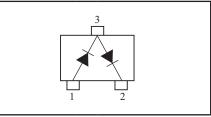
#### Packaging

DB3X314F0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

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

		Duffer			
Paramet	Symbol	Rating	Unit		
Reverse voltage	V <sub>R</sub>	30	V		
Maximum peak reverse v	V <sub>RM</sub>	30	V		
Forward current	Single	т	30	mA	
	Series	– I <sub>F</sub>	20	mA	
Peak forward current	Single	т	150	mA	
	Series	– I <sub>FM</sub>	110	mA	
Junction temperature	Tj	125	°C		
Operating ambient temper	T <sub>opr</sub>	-40 to +85	°C		
Storage temperature	T <sub>stg</sub>	-55 to +125	°C		





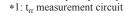
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

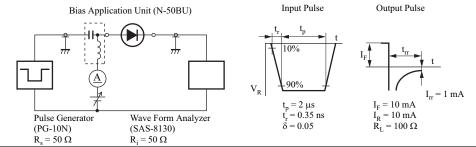
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$			0.4	v
	V <sub>F2</sub>	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I <sub>R</sub>	$V_R = 30 V$			300	nA
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		1.5		pF
Reverse recovery time *1	t <sub>rr</sub>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

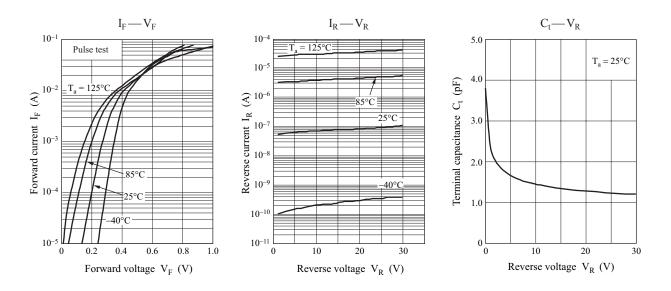
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

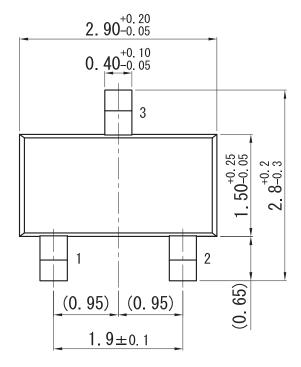


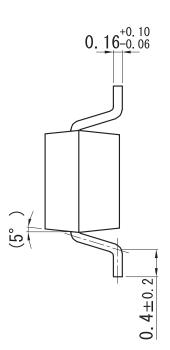


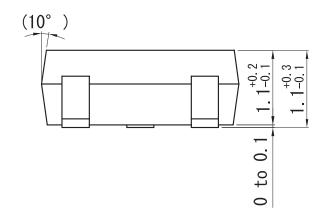


Unit: mm

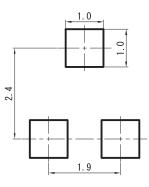
### Mini3-G3-B







Land Pattern (Reference) (Unit: mm)



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