DB3J314F

Silicon epitaxial planar type

For high speed switching circuits DB3X314F in SMini3 type package

■ Features

- Short reverse recovery time t_{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

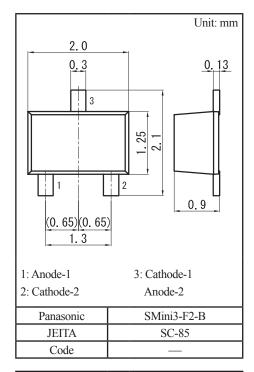
Dual DB2J314 (Series)

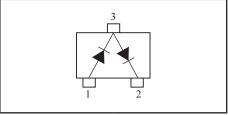
Packaging

DB3J314F0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage		V _R	30	V
Maximum peak reverse voltage		V _{RM}	30	V
Forward current	Single	T	30	mA
	Series	$I_{\rm F}$	20	mA
Peak forward current	Single	т.	150	mA
	Series	I_{FM}	110	mA
Junction temperature		T _j	125	°C
Operating ambient temperature		T _{opr}	$\Gamma_{\rm opr}$ -40 to $+85$	
Storage temperature		T _{stg}	-55 to +125	°C

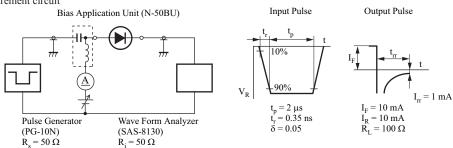


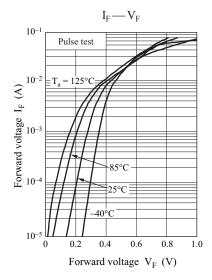


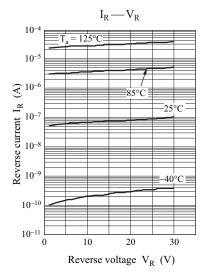
■ Electrical Characteristics $T_a = 25$ °C±3°C

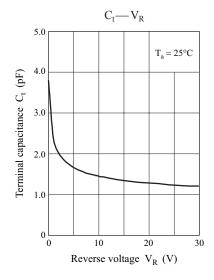
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$			0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			300	nA
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R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





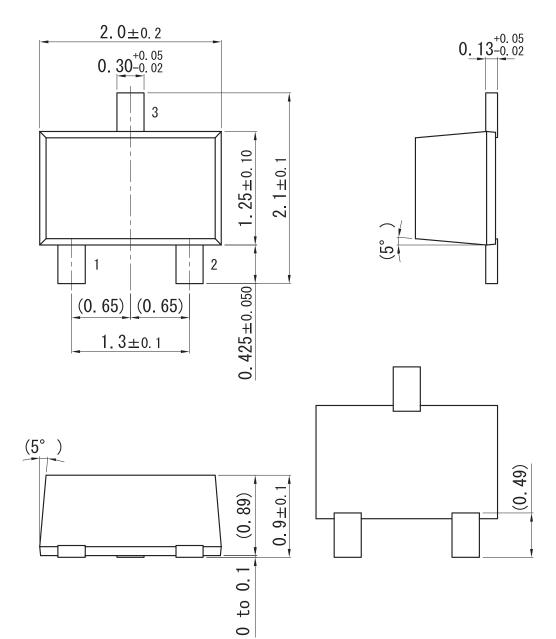




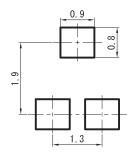
Ver. CED 2

SMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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