DB3J316N

Silicon epitaxial planar type

For small current rectification DB3X316N in SMini3 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: 5J

■ Basic Part Number

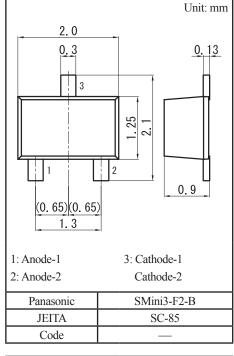
Dual DB2S316 (Common Cathode)

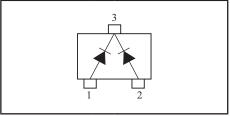
Packaging

DB3J316N0L 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	
Repetitive peak reverse voltage		V _{RRM}	30	V	
Forward current (Average)	Single		100	mA	
	Double *1	$I_{F(AV)}$	70		
Peak forward current	Single	т.	300	mA	
	Double *1	- I _{FM}	200		
Non-repetitive peak forward surge current *2		I _{FSM}	1	A	
Junction temperature		T _j	125	°C	
Operating ambient temperature		T _{opr} -40 to +85		°C	
Storage temperature		T _{stg}	-55 to +125	°C	





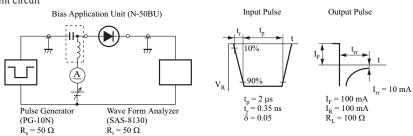
Note) *1: Value of each diode in double diodes used.

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

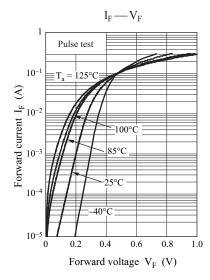
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 30 \text{ V}$			15	μΑ
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		2		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		0.8		ns

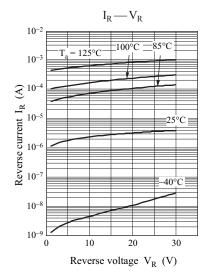
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

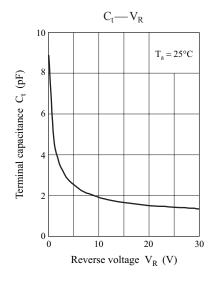
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 \mbox{MHz}
 - *1: t_{rr} measurement circuit



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



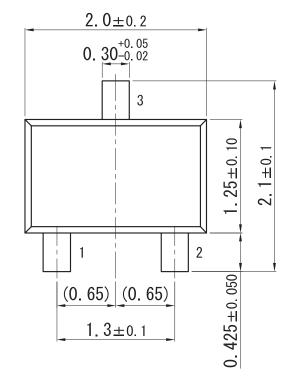


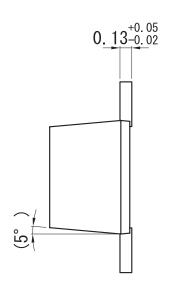


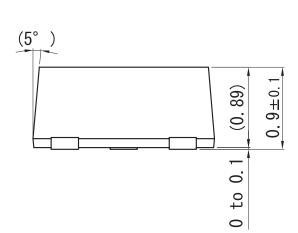
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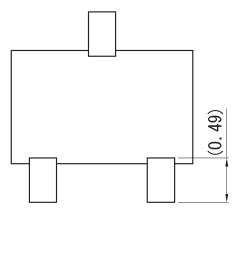
SMini3-F2-B

Unit: mm

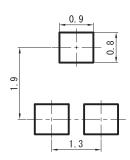








■ Land Pattern (Reference) (Unit: mm)



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