DB3J316N

Silicon epitaxial planar type

For small current rectification

DB3X316N in SMini3 type package

Features

- \bullet Short reverse recovery time $t_{\rm rr}$
- \bullet Low forward voltage $V_{\rm F}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: 5J

Basic Part Number

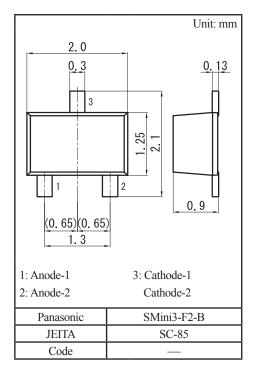
Dual DB2S316 (Common Cathode)

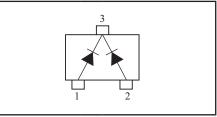
Packaging

DB3J316N0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit		
Reverse voltage		V _R	30	V	
Repetitive peak reverse voltage		V _{RRM}	30	V	
Forward current (Average)	Single	т	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	А	
Junction temperature		Tj	125	°C	
Operating ambient temperature		T _{opr} -40 to +85		°C	
Storage temperature		T _{stg}	-55 to +125	°C	





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Note) *1: Value of each diode in double diodes used. *2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

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

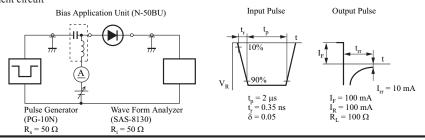
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I _R	$V_R = 30 V$			15	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		2		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$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

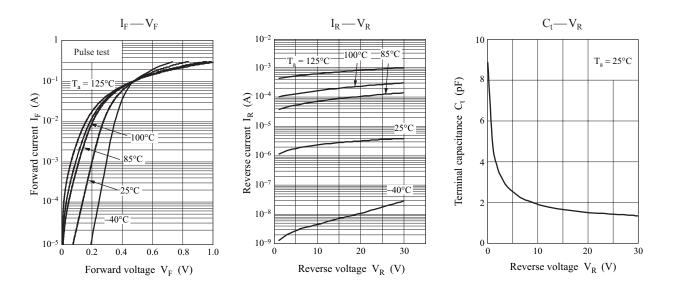
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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 MHz

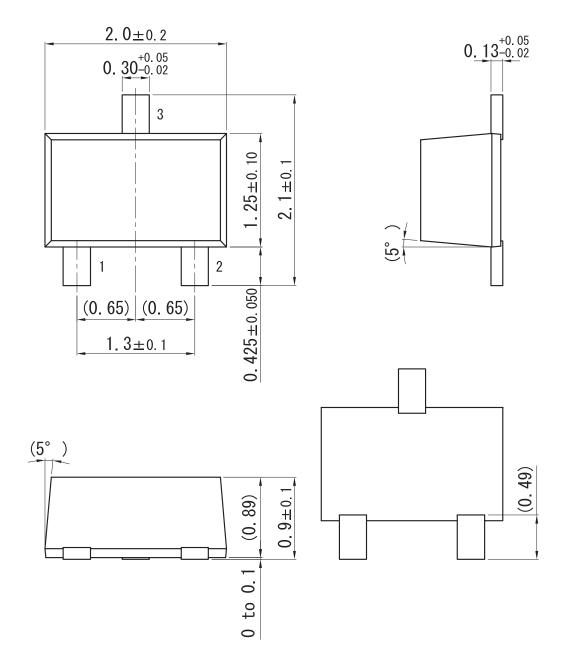
*1: t_{rr} measurement circuit



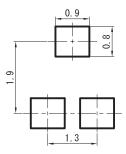


Unit: mm

SMini3-F2-B



Land Pattern (Reference) (Unit: mm)



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