DB3X316N

Silicon epitaxial planar type

For small current rectification

■ 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

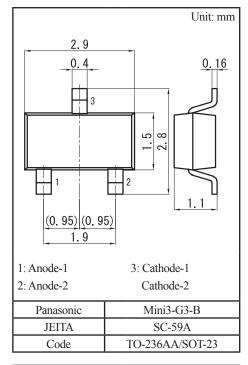
Dual DB2S316 (Common cathode)

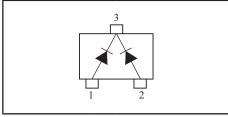
Packaging

DB3X316N0L 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	т	100	mA	
	Double *1	$I_{F(AV)}$	70		
Peak forward current	Single	T	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}	T _{opr} -40 to +85		
Storage temperature		T _{stg}	-55 to +125	°C	





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

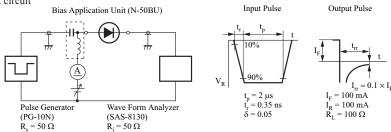
■ Electrical Characteristics $T_a = 25$ °C±3°C

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}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		0.8		ns

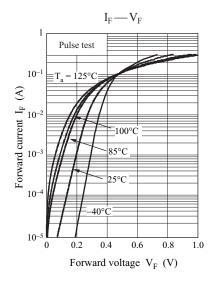
 $Note) \ 1. \ Measuring \ methods \ are \ based \ on \ JAPANESE \ INDUSTRIAL \ STANDARD \ JIS \ C \ 7031 \ measuring \ methods \ for \ diodes.$

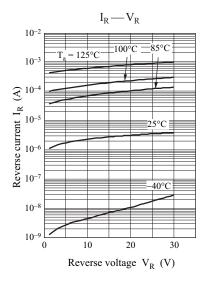
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz

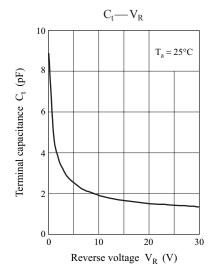
*1: t_{rr} measurement circuit



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



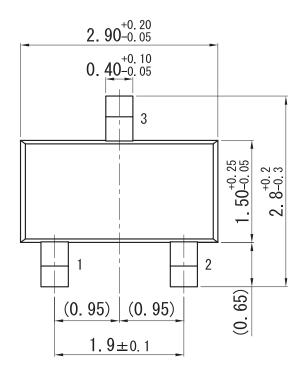


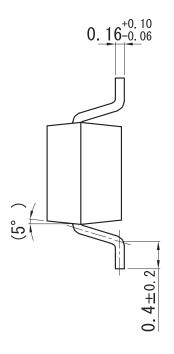


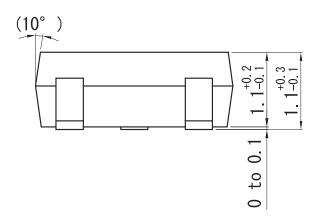
Ver. CED 2

Mini3-G3-B

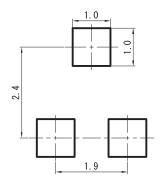
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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