DB3X316F

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: 5K

Basic Part Number

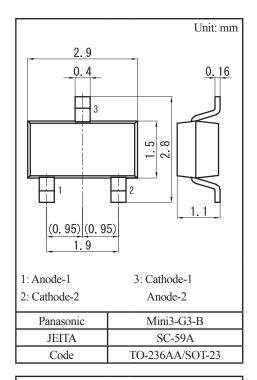
Dual DB2S316 (Series)

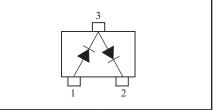
Packaging

DB3X316F0L 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	Single	т	100	mA
	Series	IF	70	mA
Peak forward current	Single	т	300	mA
	Series	- I _{FM}	200	mA
Non-repetitive peak forward surge current *1		I _{FSM}	1	А
Junction temperature		Tj	T _j 125	
Operating ambient temperature		T _{opr}	-40 to +85	°C
Storage temperature		T _{stg}	-55 to +125	°C





Note) *1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

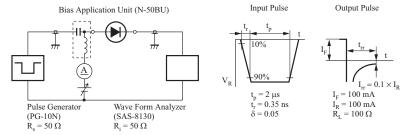
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

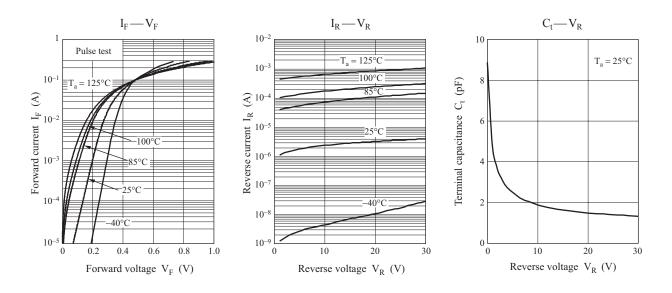
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I _R	$V_R = 30 V$			15	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		2		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		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.

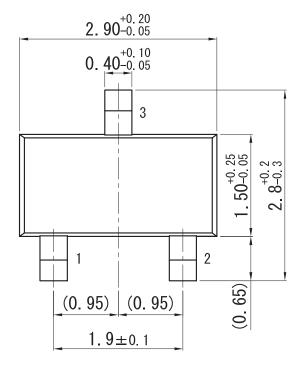
- 3. Absolute frequency of input and output is 250 MHz
 - *1: t_{rr} measurement circuit

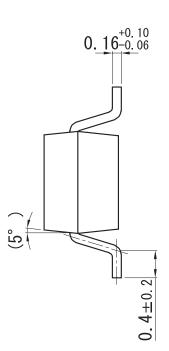


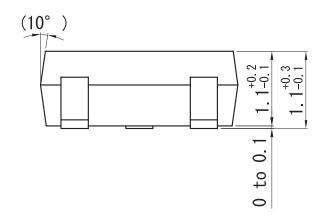


Unit: mm

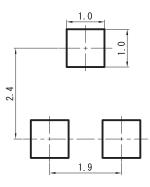
Mini3-G3-B







Land Pattern (Reference) (Unit: mm)



Ver. EED

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