

DB3X501K

Silicon epitaxial planar type

For high speed switching

DB2J501 in Mini3 type package

■ Features

- Short reverse recovery time t_{rr}
- Low terminal capacitance C_t
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	50	V
Repetitive peak reverse voltage	V_{RRM}	50	V
Peak forward current	I_{FM}	300	mA
Forward current (Average)	$I_{F(AV)}$	200	mA
Non-repetitive peak forward surge current *	I_{FSM}	1	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

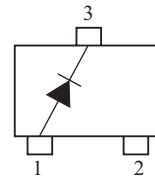
(Note) *: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

■ Package

- Code
Mini3-G3-B
- Pin Name
1: Anode
2: N.C.
3: Cathode

■ Marking Symbol: 4H

■ Internal Connection



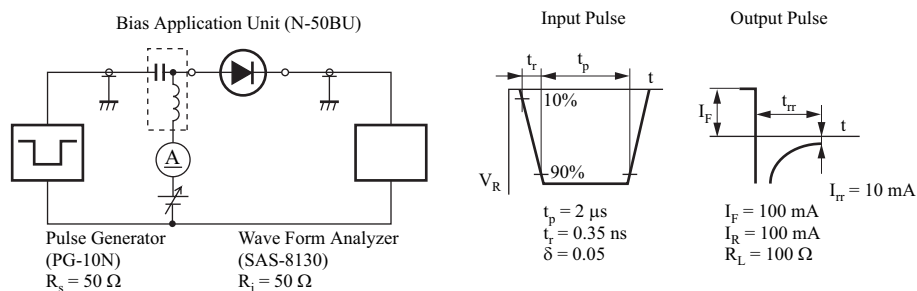
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 30 \text{ mA}$			0.36	V
	V_{F2}	$I_F = 200 \text{ mA}$			0.55	
Reverse current	I_R	$V_R = 50 \text{ V}$			200	μA
Terminal capacitance	C_t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		4		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		1.6		ns

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

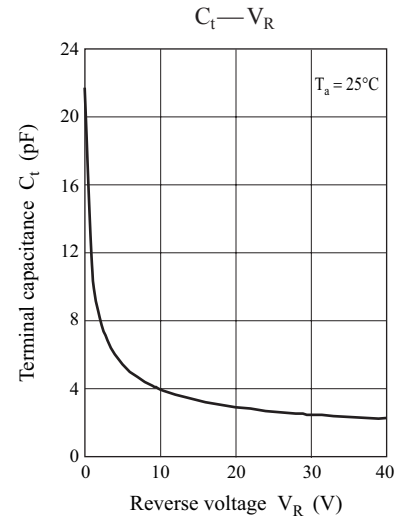
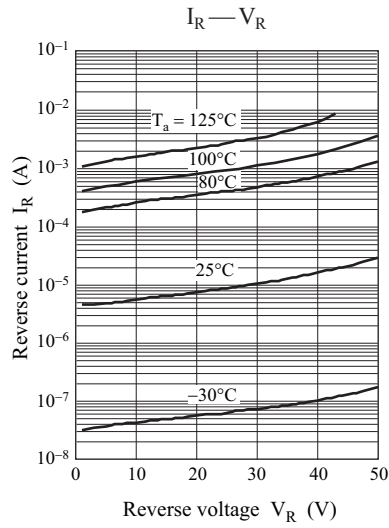
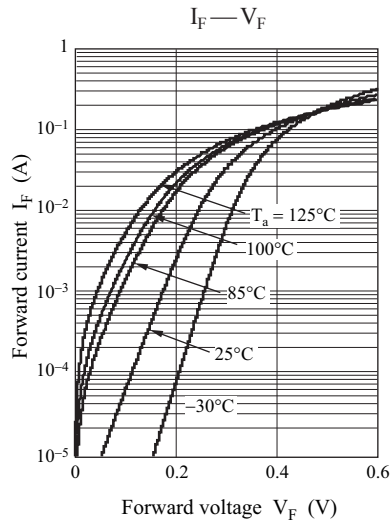
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 1 GHz

*: t_{rr} measurement circuit

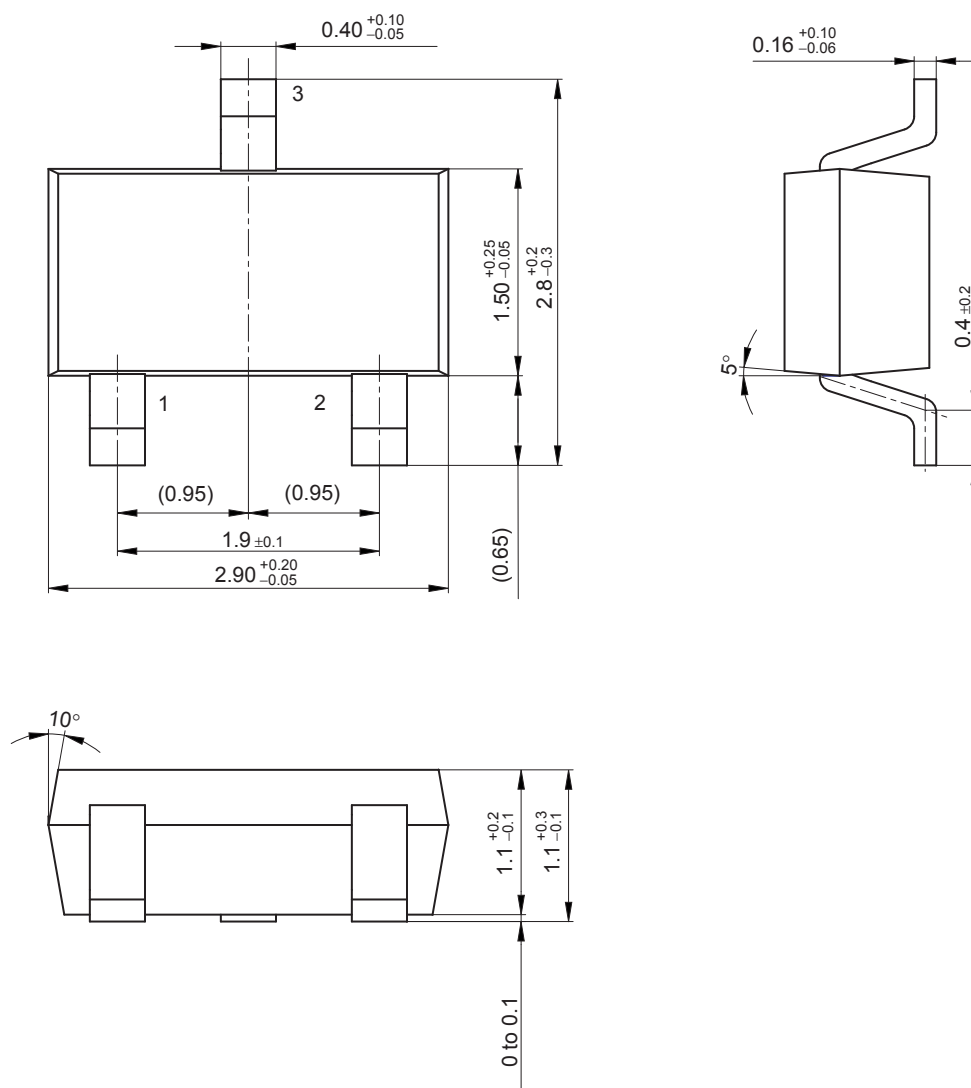
DB3X501K

Panasonic



Mini3-G3-B

Unit: mm



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