

Schottky Barrier Diode DB3X501K0L

DB3X501K0L Silicon epitaxial planar type

For high speed switching circuits DB2J501 in Mini3 type package

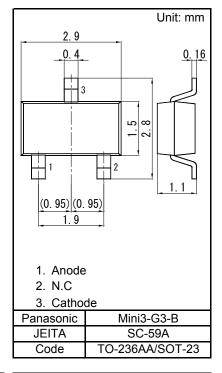
Features

- Short reverse recovery time trr
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol:4H

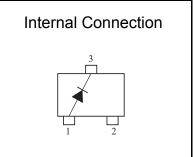
Packaging

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



■ Absolute Maximum Ratings Ta = 25 °C

0			
Parameter	Symbol	Rating	Unit
Reverse voltage	VR	50	V
Repctitive peak reverse voltage	VRRM	50	V
Peak forward current	IFM	300	mA
Forward current (Average)	IF(AV)	200	mA
Non-repetitive peak forward surge current *1	IFSM	1	А
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +125	°C



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

Panasonic

Schottky Barrier Diode

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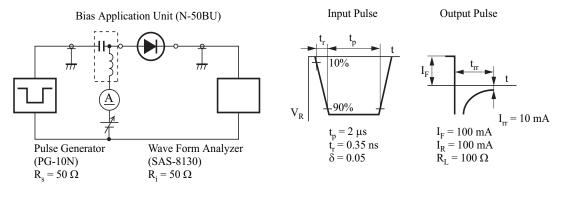
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF1	IF = 30 mA			0.36	V
	VF2	IF = 200 mA			0.55	V
Reverse current	IR	VR = 50 V			200	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		4		pF
Reverse recovery time ^{*1}	trr	IF = IR = 100 mA, Irr = 10 mA, RL = 100 Ω		1.6		ns

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

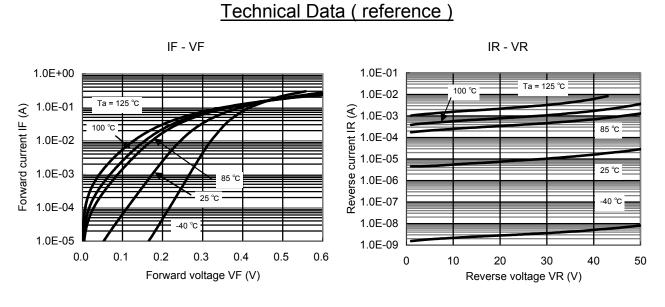
2. Schottky diode is frail with static electricity, and it should be kept in safety from shock of static electricity and static electricity level.

- 3. Absolute frequency of input and output is 1 000 MHz.
- 4. *1 : trr measurement circuit

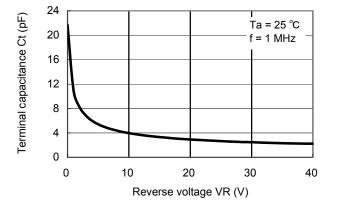


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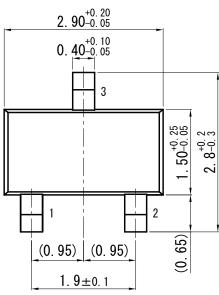
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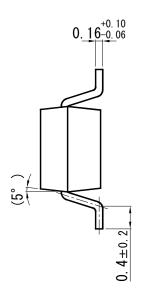


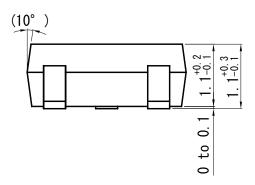
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Unit: mm

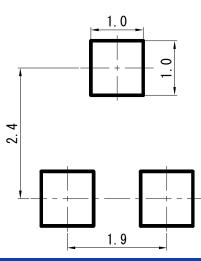
Mini3-G3-B







Land Pattern (Reference) (Unit: mm)



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