

DB4X501K0R

# Schottky Barrier Diode DB4X501K0R

Silicon epitaxial planar type

For high speed switching circuits DB2J501 in Mini4 type package

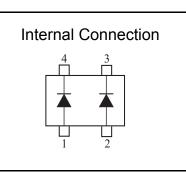
- Features
- · Short reverse recovery time trr
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 4H
- Basic Part Number : Dual DB2J501 (Parallel)

#### Packaging

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

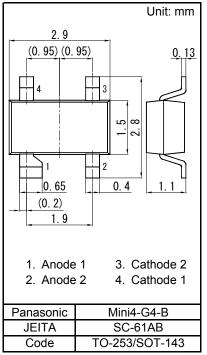
#### ■ Absolute Maximum Ratings Ta = 25 °C

Parameter		Symbol	Rating	Unit	
Reverse voltage		VR	50	V	
Repetitive peak reverse voltage		VRRM	50	V	
Non-repetitive peak	Single	IFSM	1	A	
forward surge current * <sup>2</sup>	Double *1		0.75		
Peak forward current	Single	IFM	300	mA	
	Double *1		225		
Forward current (Average)	Single	IF(AV)	200	mA	
	Double *1	п (лу)	150		
Junction temperature		Tj	125	°C	
Operating ambient temperature		Topr	-40 to +85	°C	
Storage temperature		Tstg	-55 to +125	°C	



Note: \*1 Value of each diode in series diodes used.

\*2 50 Hz sine wave 1 cycle (Non-repetitive peak current)



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

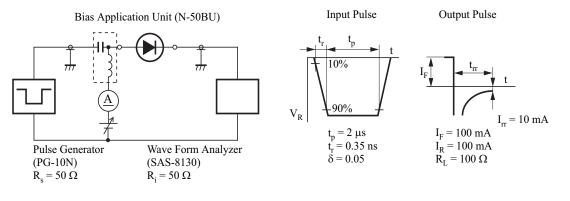
Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Forward voltage	VF1	IF = 30 mA			0.36	V	
	VF2	IF = 200 mA			0.55	v	
Reverse current	IR	VR = 50 V			200	μA	
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		4		pF	
Reverse recovery time <sup>*1</sup>	trr	IF = IR = 100 mA Irr = 10 mA, RL = 100 Ω		1.6		ns	

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

2. 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.

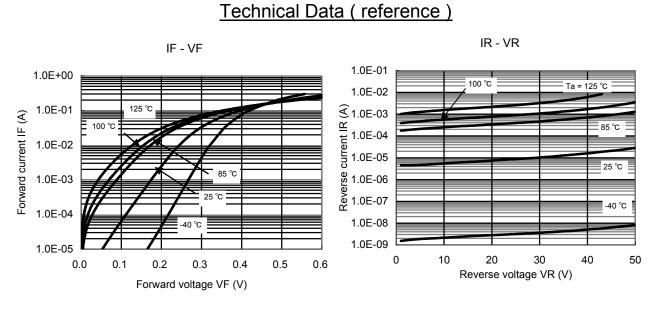
3. Absolute frequency of input and output is 1 000 MHz.

4. \*1 : trr measurement circuit

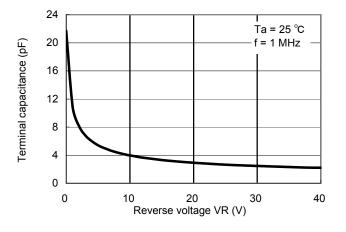


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Schottky Barrier Diode DB4X501K0R







Established : 2010-02-22 Revised : 2013-12-13 Page 3 of 4

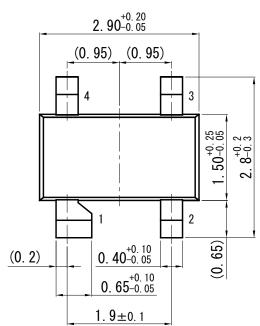
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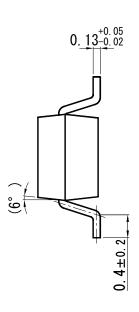


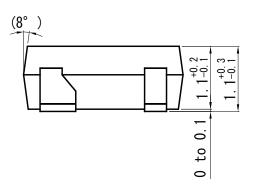
Schottky Barrier Diode DB4X501K0R

Unit: mm

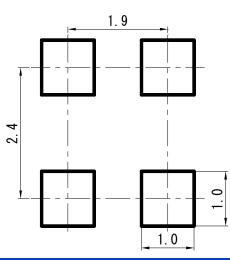
Mini4-G4-B







■ Land Pattern (Reference) (Unit: mm)



Established : 2010-02-22 Revised : 2013-12-13

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