

Panasonic

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

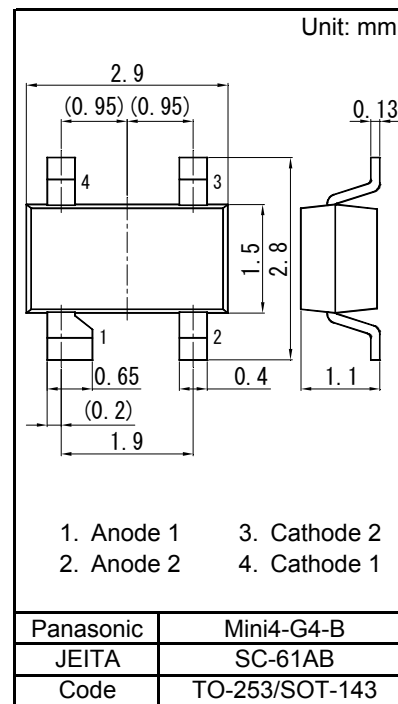
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

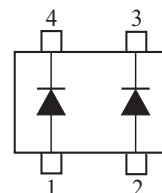
Parameter	Symbol	Rating	Unit
Reverse voltage	VR	50	V
Repetitive peak reverse voltage	VRRM	50	V
Non-repetitive peak forward surge current *2	Single	1	A
	Double *1	0.75	
Peak forward current	Single	300	mA
	Double *1	225	
Forward current (Average)	Single	200	mA
	Double *1	150	
Junction temperature	Tj	125	°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)



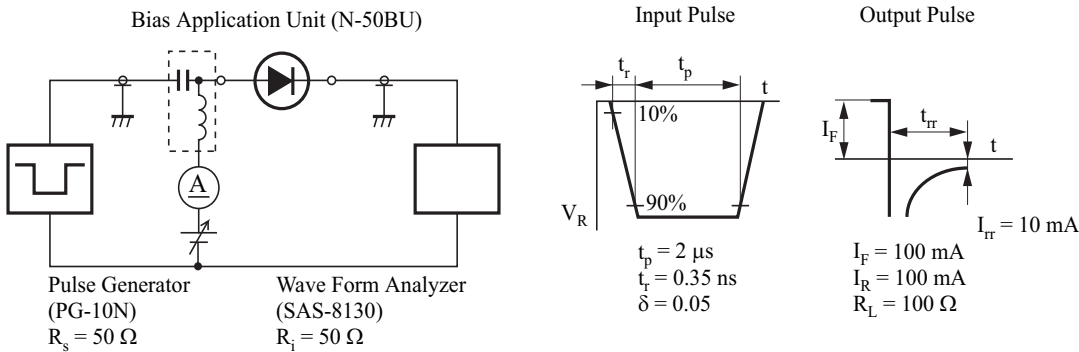
Internal Connection



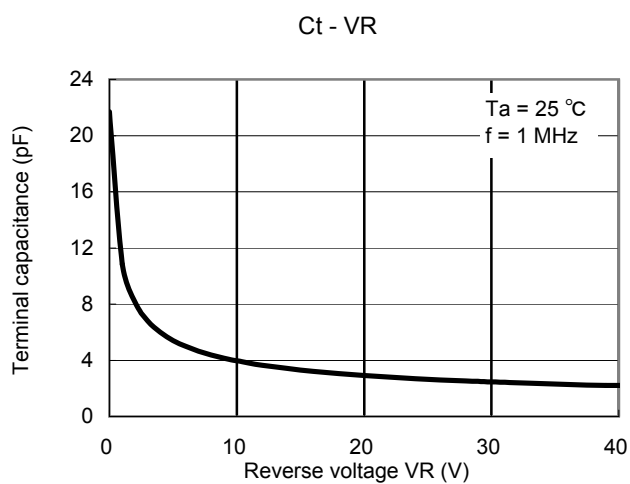
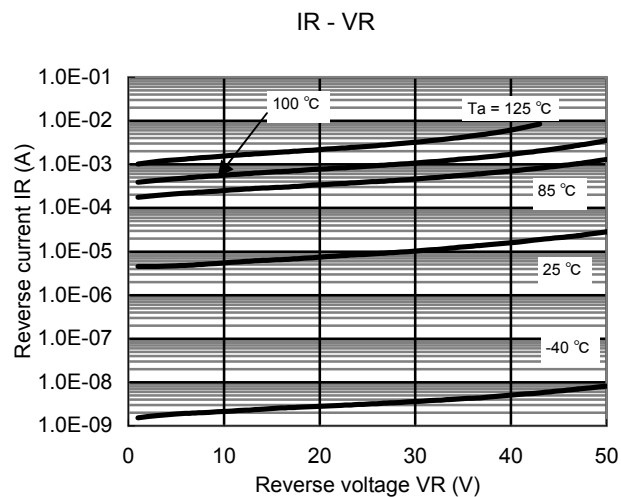
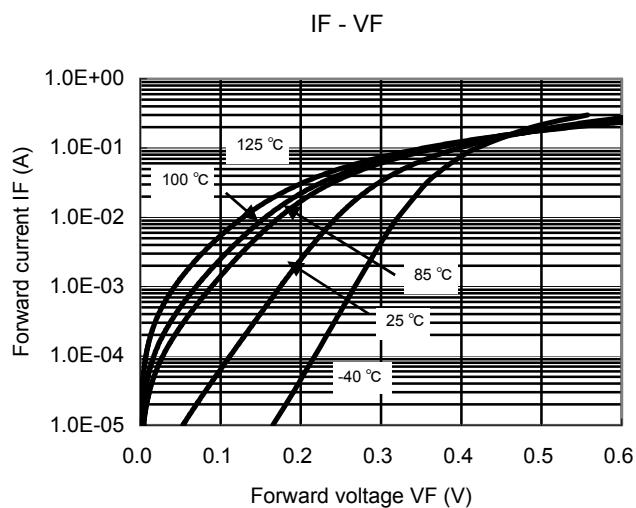
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF1	IF = 30 mA			0.36	V
	VF2	IF = 200 mA			0.55	
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. 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



Technical Data (reference)

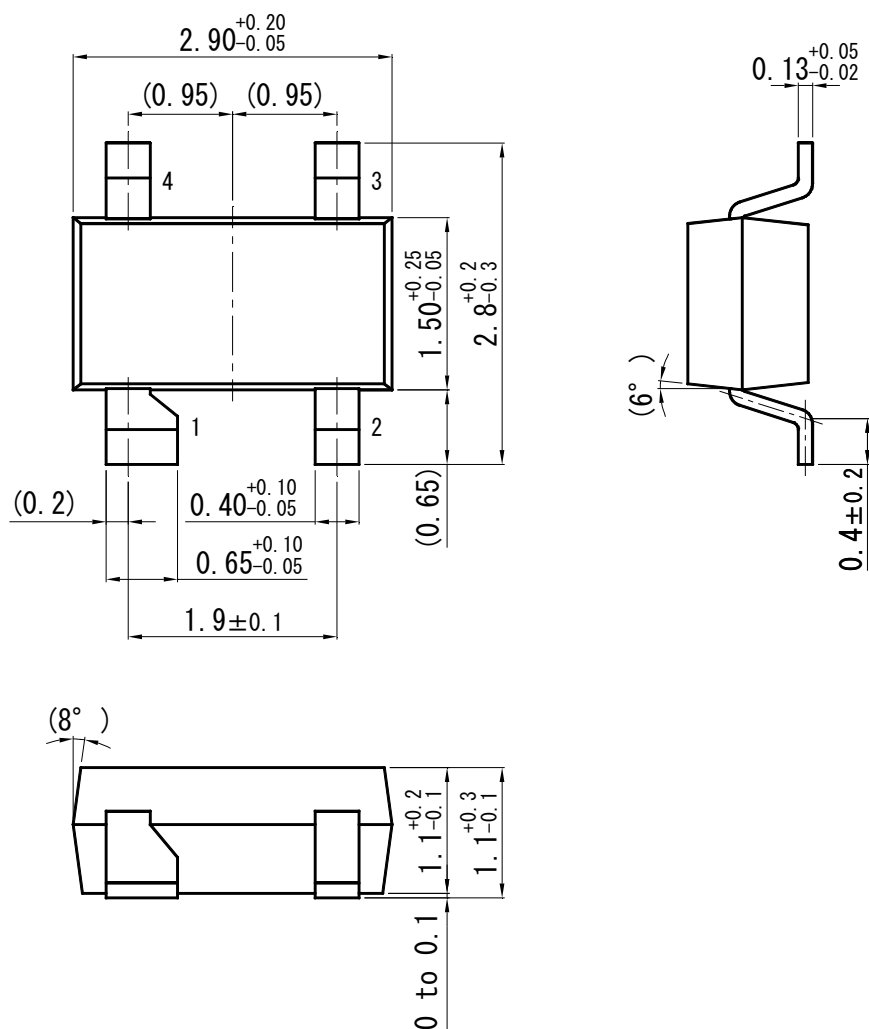


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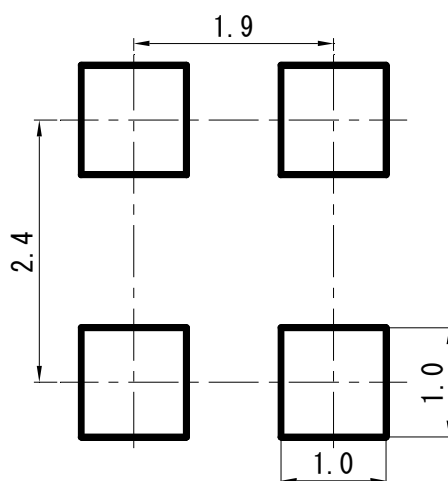
Schottky Barrier Diode
DB4X501K0R

Mini4-G4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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