Panasonic

DB4X501K0R

Silicon epitaxial planar type

For high speed switching circuits
DB2J501 in Mini4 type package

■ Features

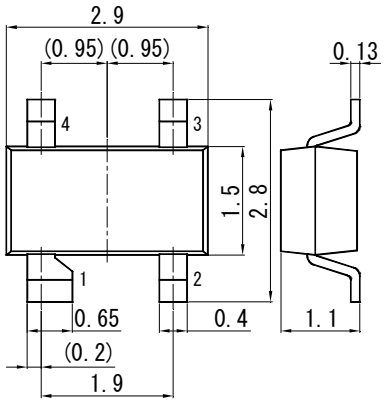
- Short reverse recovery time trr
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 4H

■ Basic Part Number :
Dual DB2J501 (Parallel)

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

Unit: mm



1. Anode 1
2. Anode 2
3. Cathode 2
4. Cathode 1

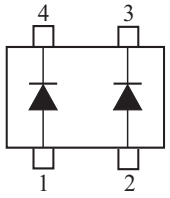
Panasonic	Mini4-G4-B
JEITA	SC-61AB
Code	TO-253/SOT-143

■ 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	IFSM	1	A
	Double *1		0.75	
Peak forward current	Single	IFM	300	mA
	Double *1		225	
Forward current (Average)	Single	IF(AV)	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

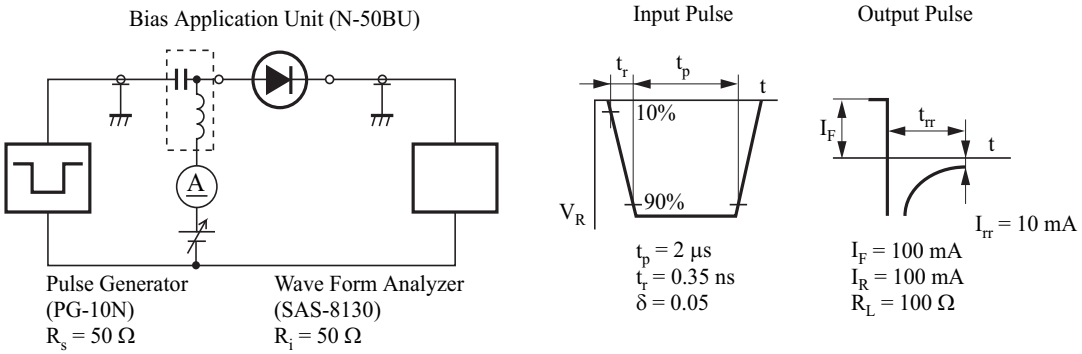


Established : 2010-02-22
Revised : 2013-12-13

■ 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



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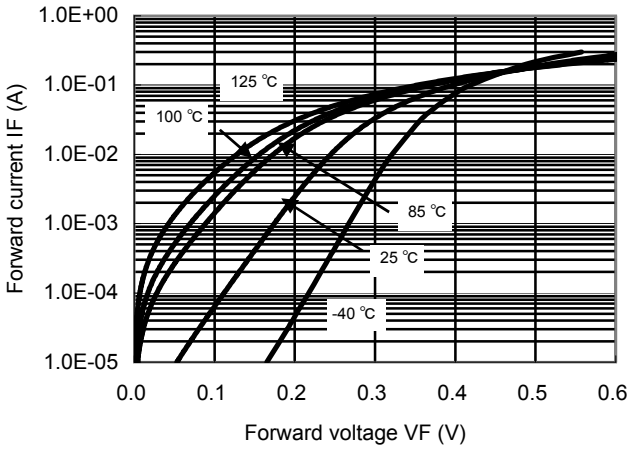
Schottky Barrier Diode

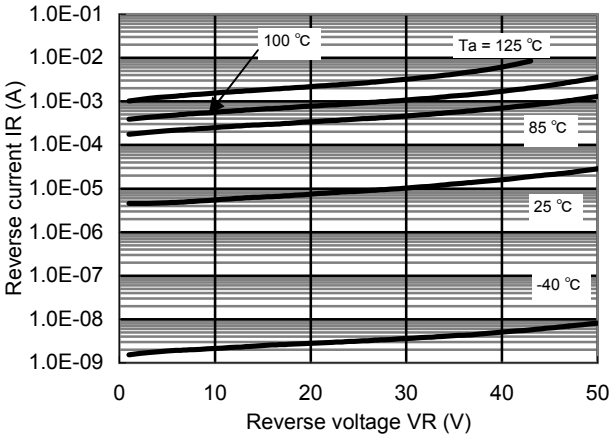
DB4X501K0R

Technical Data (reference)

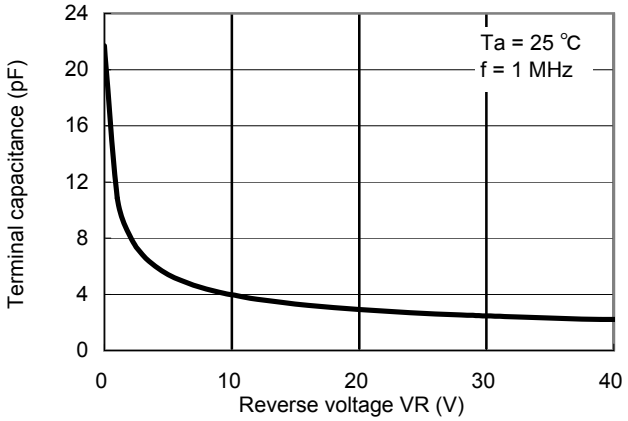
IF - VF



IR - VR



Ct - VR



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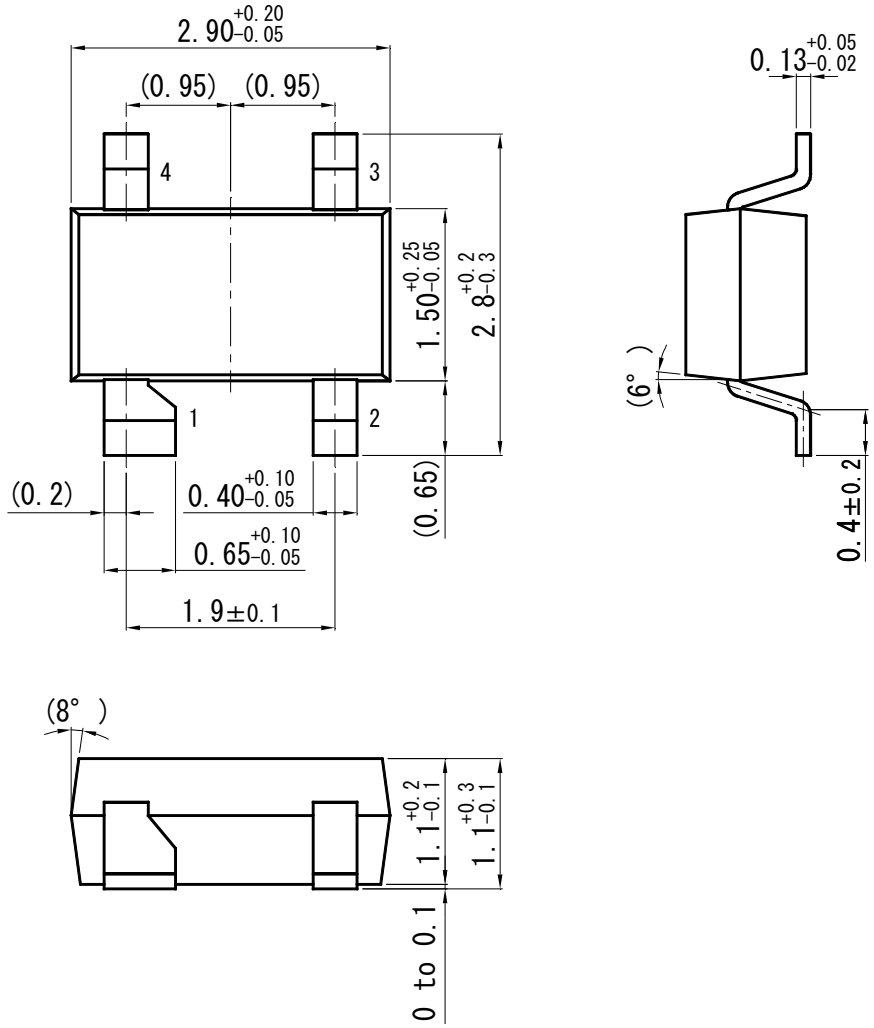
Schottky Barrier Diode

Panasonic

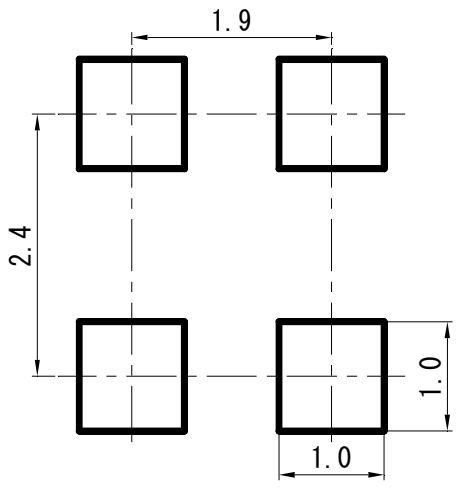
DB4X501K0R

Mini4-G4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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