



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)

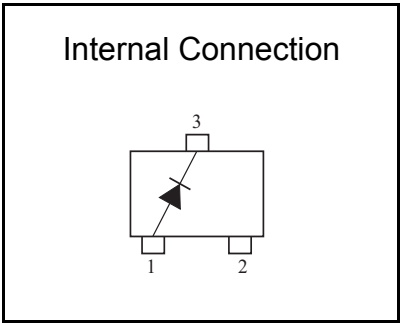
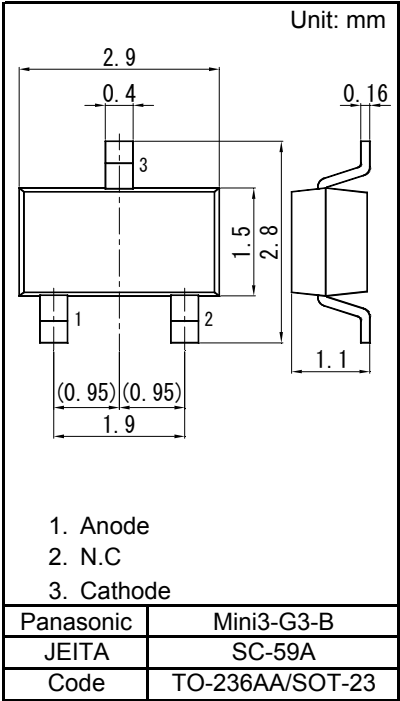
■ Marking Symbol: 4H

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

■ Absolute Maximum Ratings Ta = 25 °C

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	A
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +125	°C

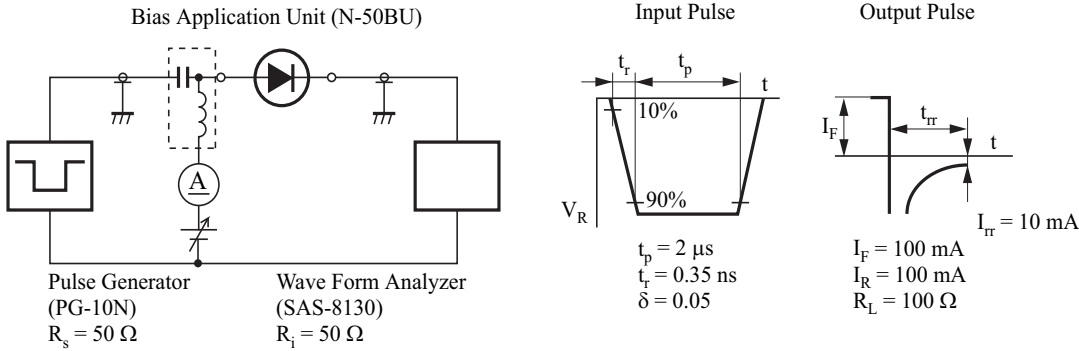
Note: *1 50 Hz sine wave 1 cycle (Non-repetitive peak current)



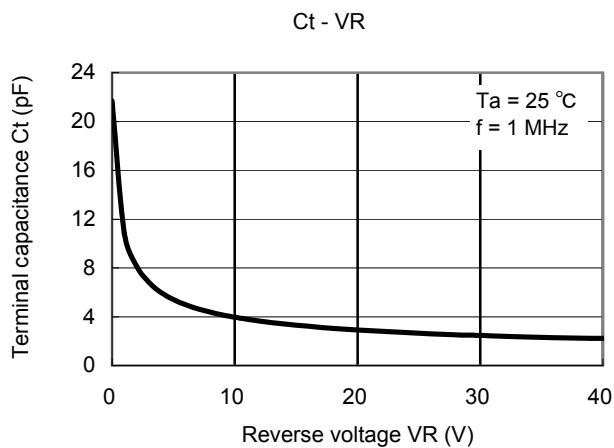
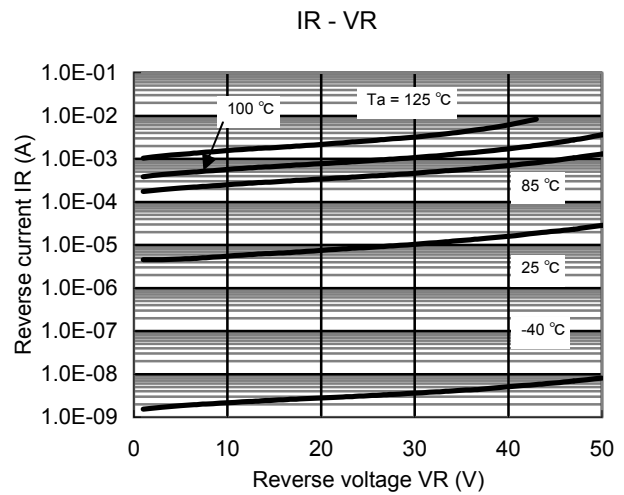
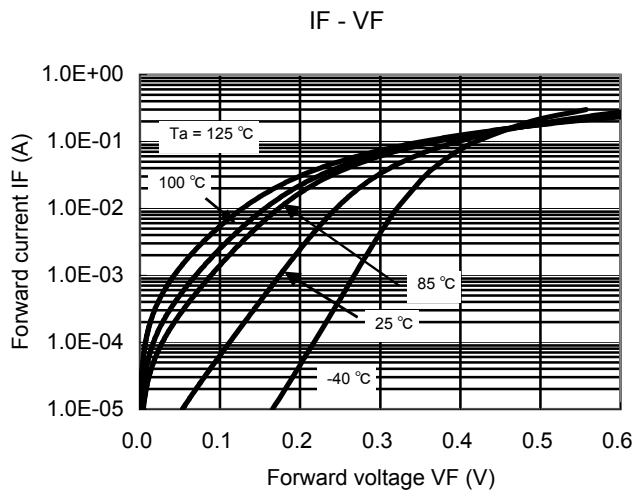
■ Electrical Characteristics Ta = 25 °C ± 3 °C

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



Technical Data (reference)

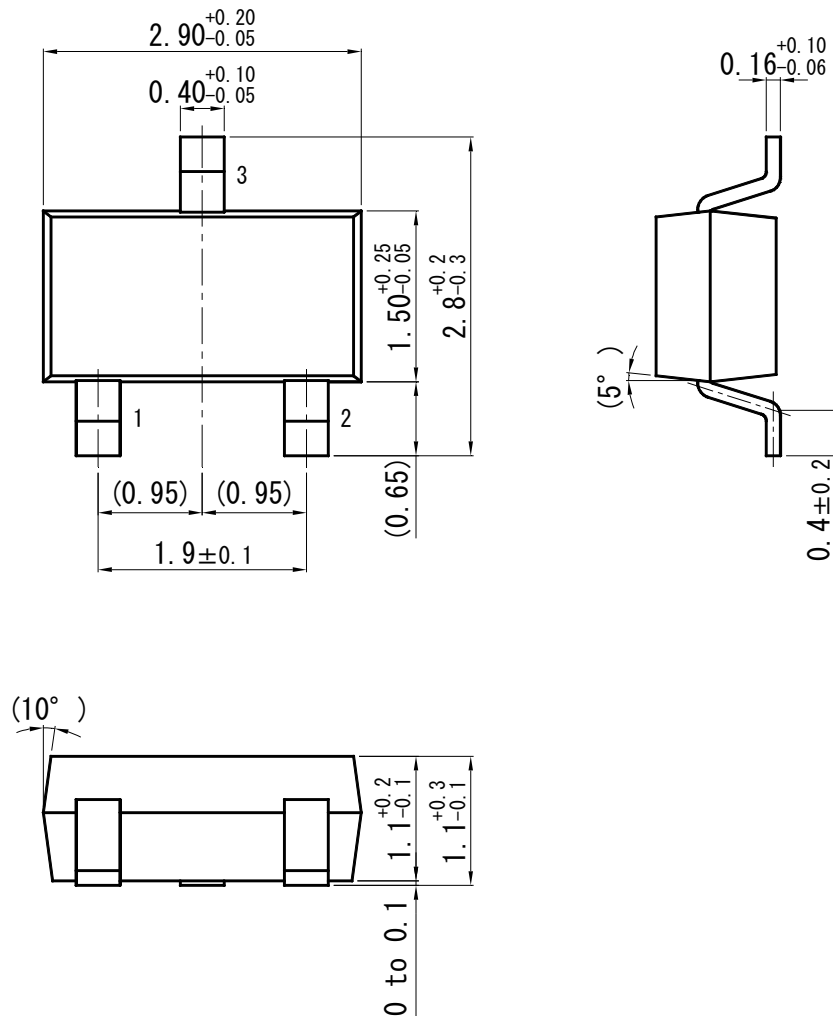


Panasonic

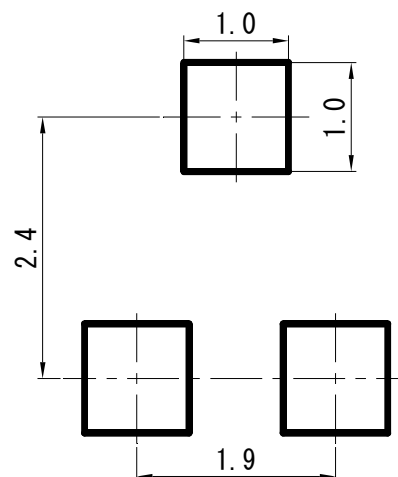
Schottky Barrier Diode
DB3X501K0L

Mini3-G3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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