

DB3X209K0L  
Silicon epitaxial planar type

For high frequency rectification

- Features
- Low forward voltage VF
  - Short reverse recovery time trr
  - Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

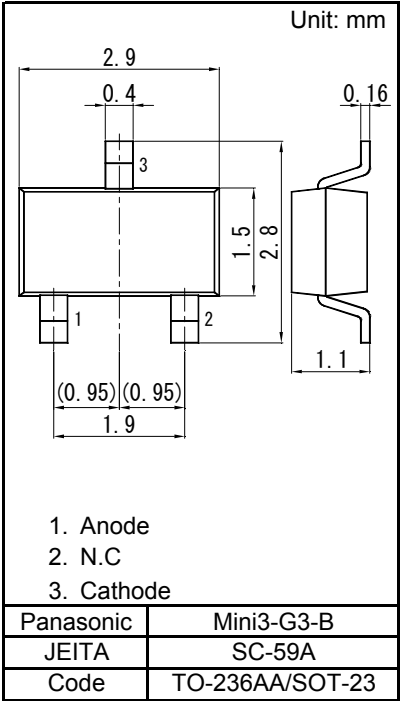
■ Marking Symbol: 4S

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

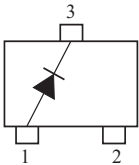
■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	20	V
Repctitive peak reverse voltage	VRRM	20	V
Forward current (Average)	IF(AV)	500	mA
Non-repetitive peak forward surge current *1	IFSM	3	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)



Internal Connection

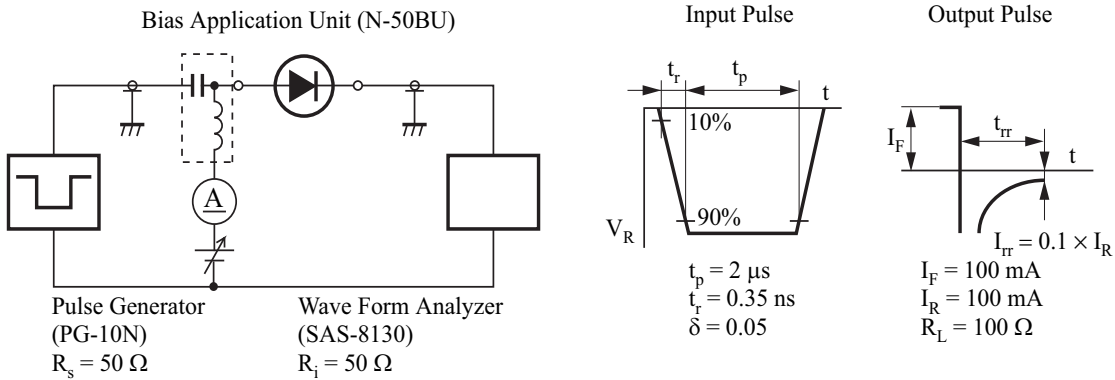




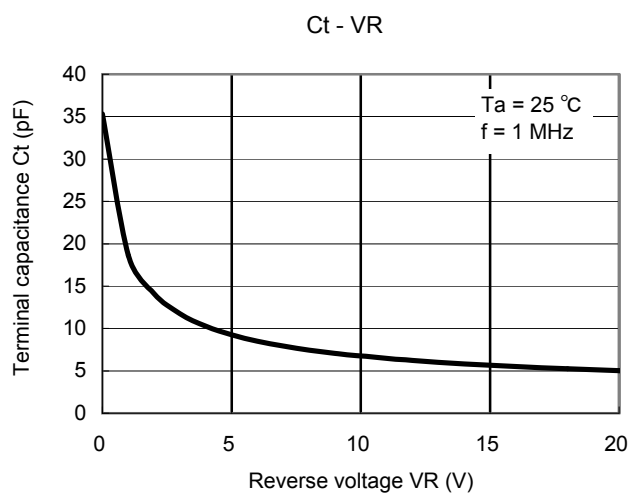
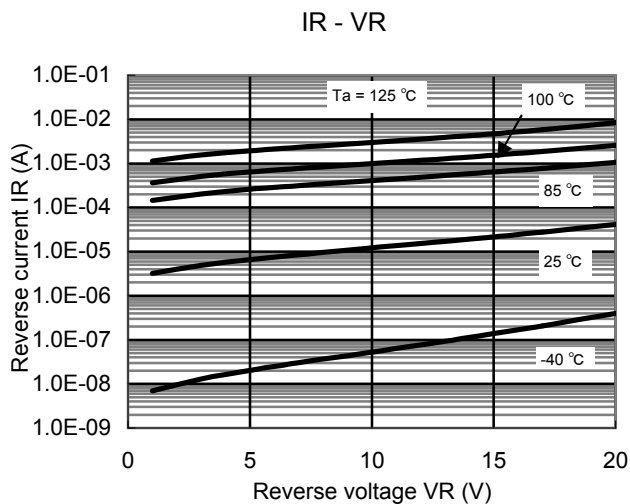
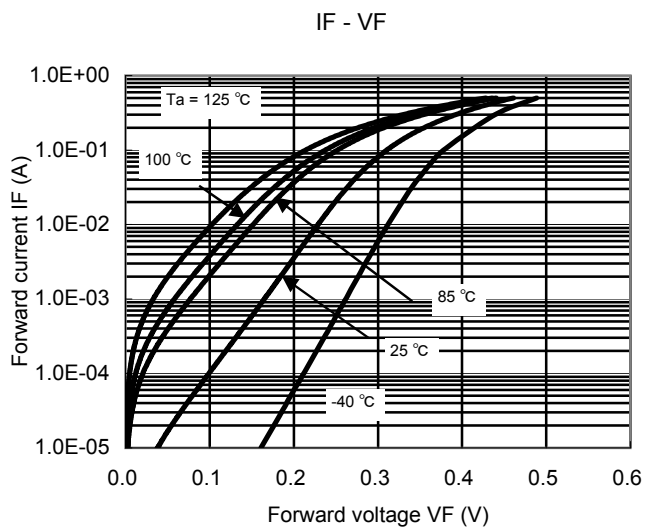
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF1	IF = 10 mA			0.3	V
	VF2	IF = 500 mA			0.5	V
Reverse current	IR	VR = 10 V			30	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		7		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1 × IR, RL = 100 Ω		2.4		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 400 MHz.
4. \*1 : trr measurement circuit



Technical Data ( reference )

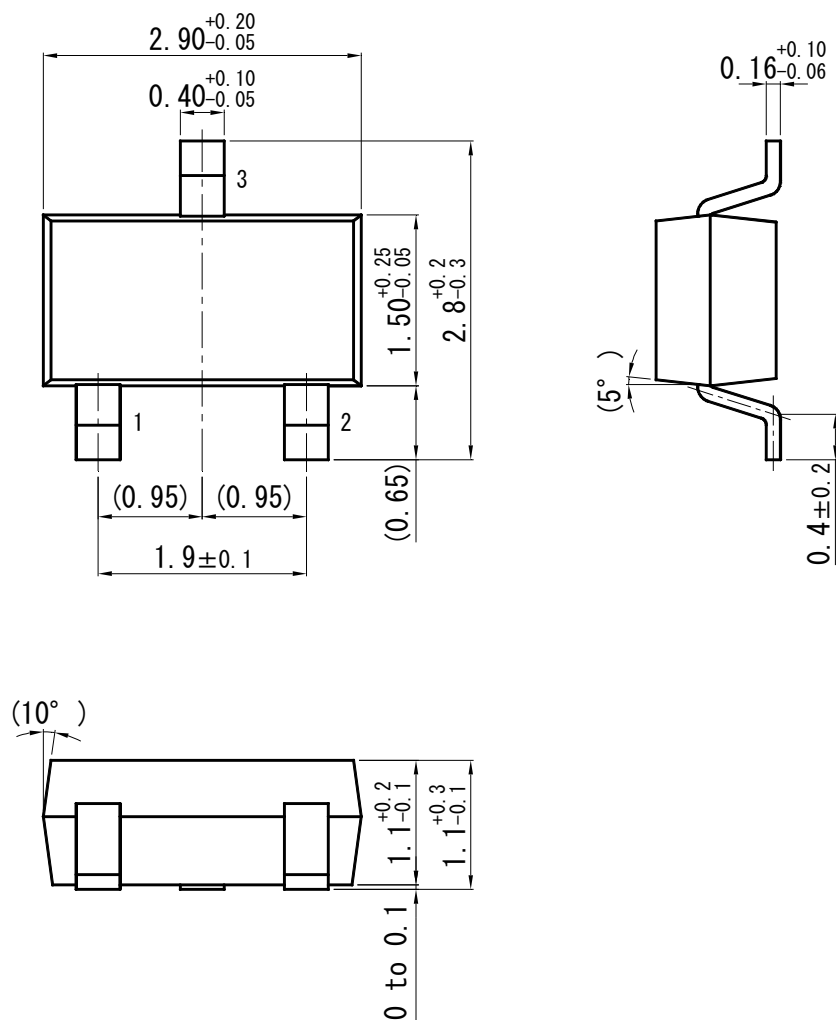


**Panasonic**

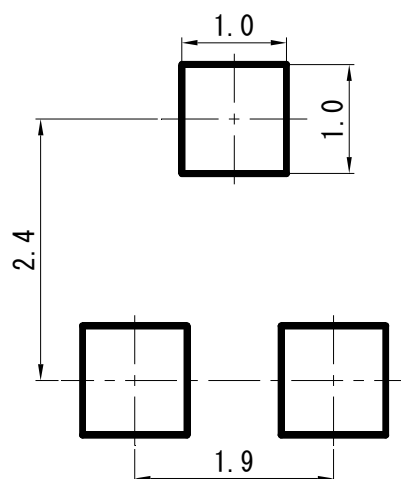
Schottky Barrier Diode  
**DB3X209K0L**

Mini3-G3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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