Unit: mm

Panasonic

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)

2. 9

0. 4

0. 16

1. Anode
2. N.C
3. Cathode

Panasonic Mini3-G3-B

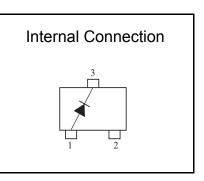
JEITA SC-59A

Code TO-236AA/SOT-23

■ 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	Α
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)



Established: 2010-02-26 Revised: 2013-12-13 **Panasonic**

Revision. 2

Schottky Barrier Diode

DB3X209K0L

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

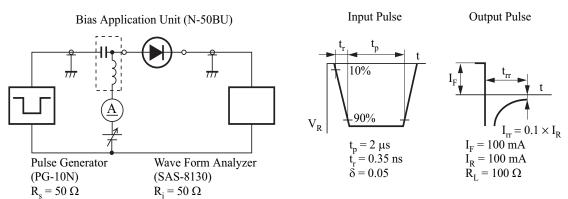
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF1	IF = 10 mA			0.3	V
	VF2	IF = 500 mA			0.5	V
Reverse current	IR	VR = 10 V			30	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		7		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1× IR, RL = 100 Ω		2.4		ns

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

Established: 2010-02-26

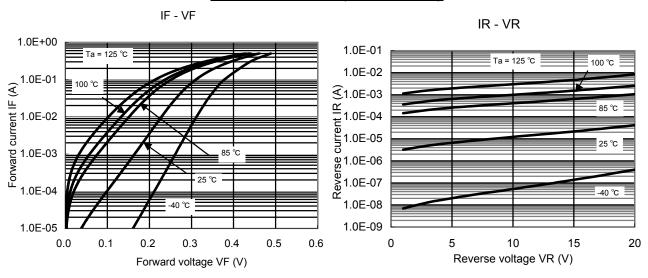
Revised

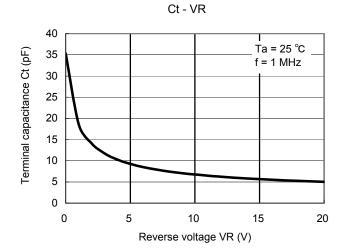


Panasonic

Schottky Barrier Diode DB3X209K0L

Technical Data (reference)



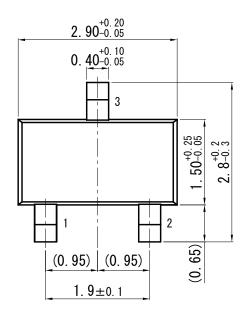


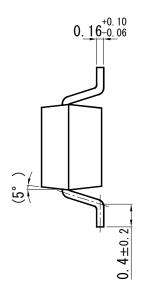
Established: 2010-02-26 Revised: 2013-12-13

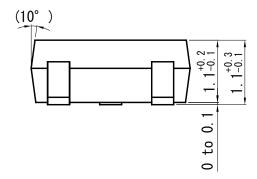
Panasonic

Mini3-G3-B

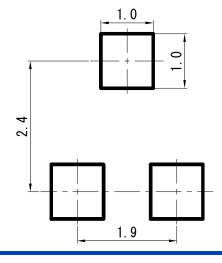
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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Established: 2010-02-26 Revised: 2013-12-13

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