Unit: mm

## **Panasonic**

### DB3X603K0L

### Silicon epitaxial planar type

For high speed switching circuits

#### ■ Features

- · High reverse voltage VR
- · Small reverse current IR
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol:5L

#### ■ 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

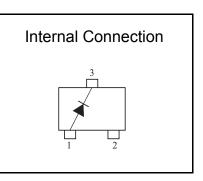
JEITA SC-59A

Code TO-236AA/SOT-23

■ Absolute Maximum Ratings Ta = 25	°C

Parameter	Symbol	Rating	Unit			
Reverse voltage	VR	60	V			
Maximum peak reverse voltage	VRM	60	V			
Forward current (Average)	IF(AV)	500	mA			
Non-repetitive peak forward surge current *1	IFSM	2	Α			
Junction temperature	Tj	125	°C			
Operating ambient temperature	Topr	-40 to +85	°C			
Storage temperature	Tstg	-55 to +125	°C			
N. 1. #4. 50.11 .: 4. 1. (A) (C) (C)						

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



Established: 2010-11-01 Revised: 2013-12-13 **Panasonic** 

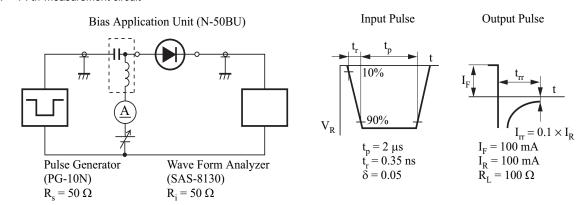
Schottky Barrier Diode

### DB3X603K0L

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 500 mA			0.65	V
Reverse current	IR	VR = 50 V			100	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		14		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1 × IR RL = 100 $\Omega$		4.5		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



Revision. 2

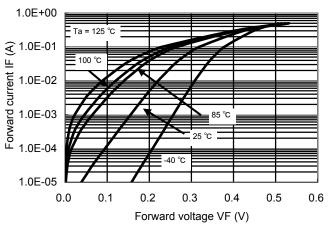
## **Panasonic**

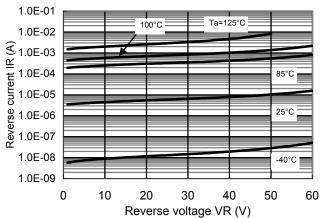
Schottky Barrier Diode

DB3X603K0L

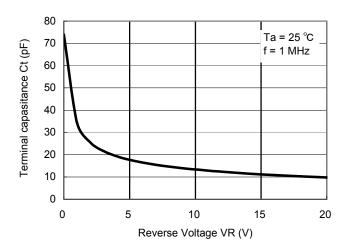
## Technical Data (reference)

IF - VF IR - VR





Ct - VR



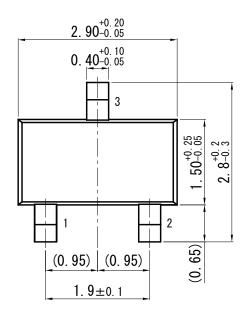
Schottky Barrier Diode

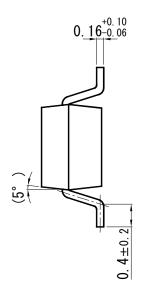
DB3X603K0L

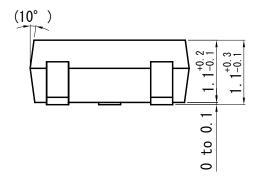
## **Panasonic**

Mini3-G3-B

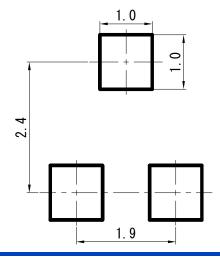
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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Established: 2010-11-01 Revised: 2013-12-13

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SK32A-LTP SK34B-TP SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP VS-6CWQ10FNHM3 ACDBA1100LR-HF ACDBA1200-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF ACDBA340-HF ACDBA260LR-HF

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