

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)

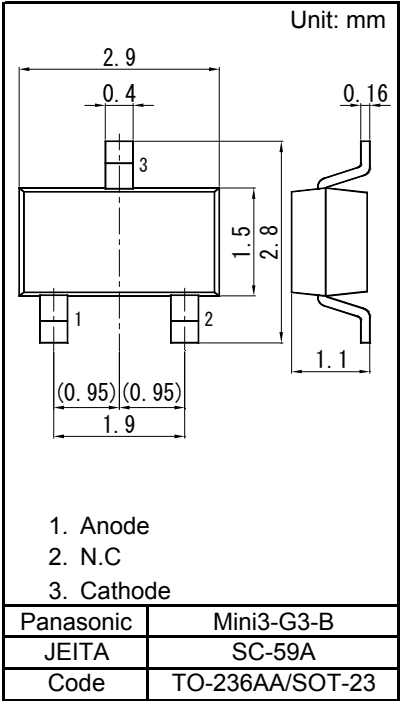
■ Marking Symbol: 5L

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

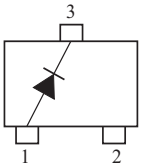
■ Absolute Maximum Ratings Ta = 25 °C

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	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)



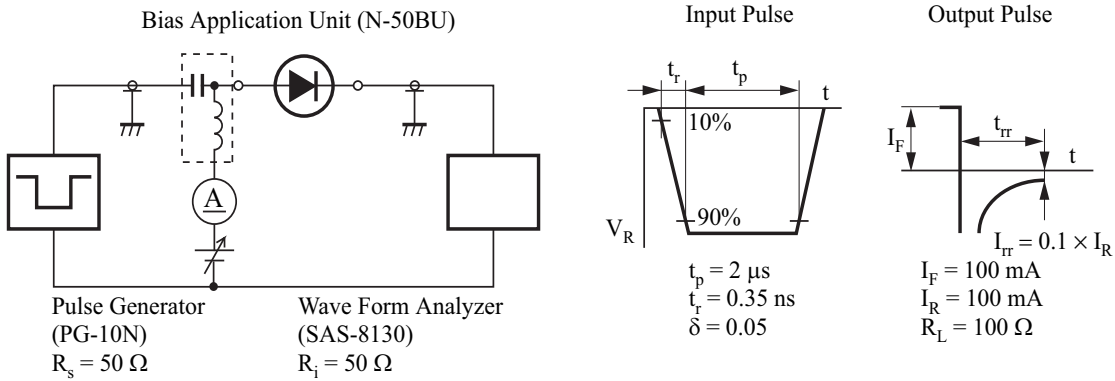
Internal Connection



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

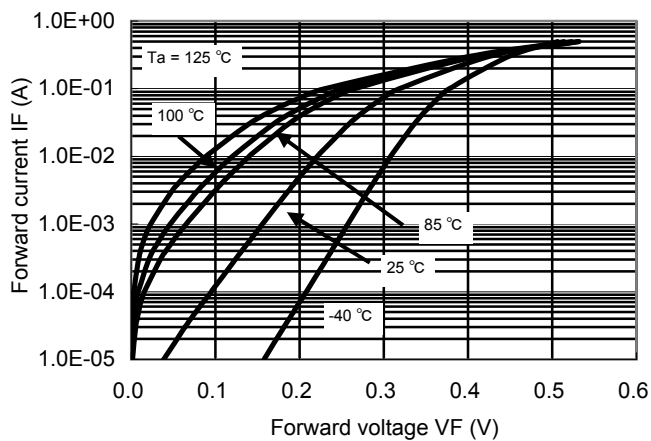
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 500 mA			0.65	V
Reverse current	IR	VR = 50 V			100	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		14		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1 × IR RL = 100 Ω		4.5		ns

- 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

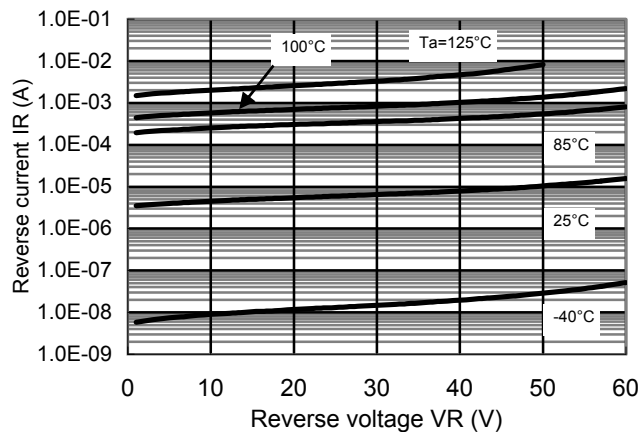


Technical Data (reference)

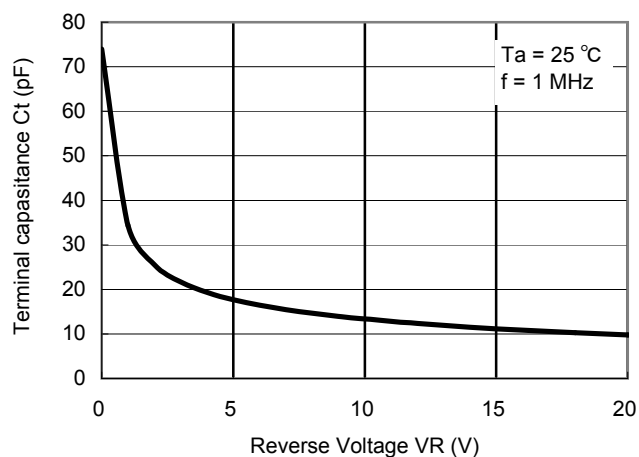
IF - VF



IR - VR



Ct - VR

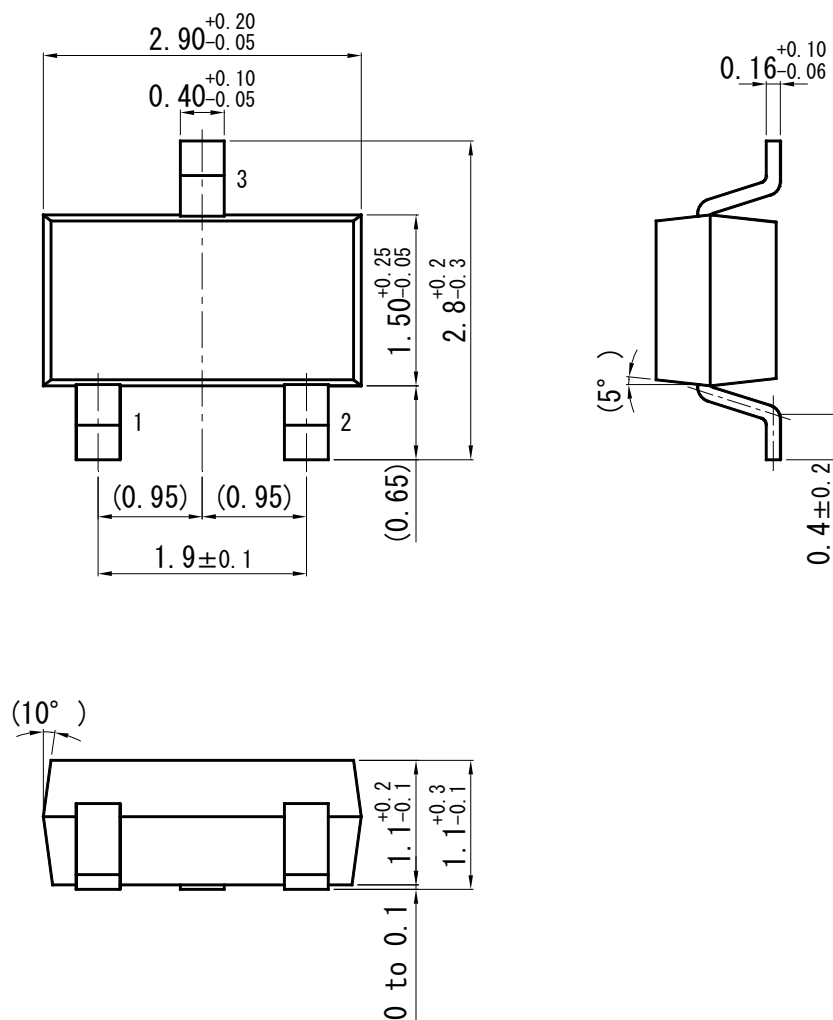


Panasonic

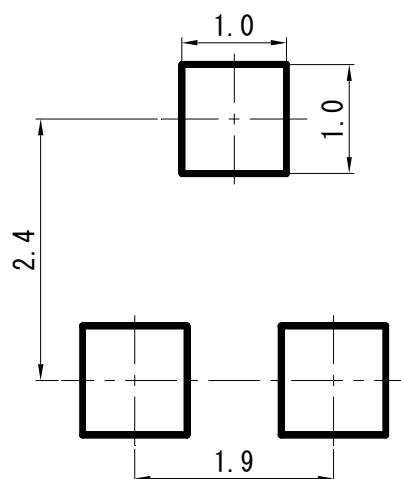
Schottky Barrier Diode
DB3X603K0L

Mini3-G3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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