Schottky Barrier Diode

Panasonic DB3X207K0L

DB3X207K0L

Silicon epitaxial planar type

For high frequency rectification

■ Features

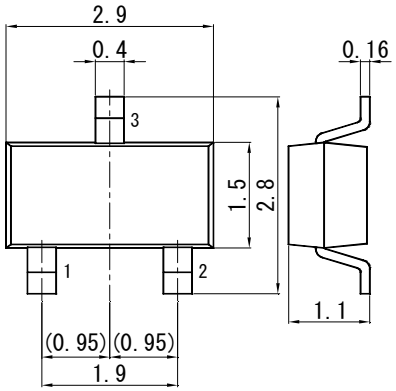
- Low forward voltage VF
- Forward current (Average) IF(AV) = 1 A rectification is possible
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 3F

■ Packaging

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

Unit: mm



1. Anode
2. N.C
3. Cathode

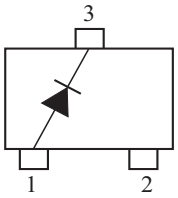
Panasonic	Mini3-G3-B
JEITA	SC-59A
Code	TO-236AA/SOT-23

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	20	V
Repetitive peak reverse voltage	VRRM	20	V
Forward current (Average) *1	IF(AV)	1	A
Non-repetitive peak forward surge current *2	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 Mounted on an alumina PC board
*2 50 Hz sine wave 1 cycle (Non-repetitive peak current)

Internal Connection



Established : 2010-06-21
Revised : 2013-04-26

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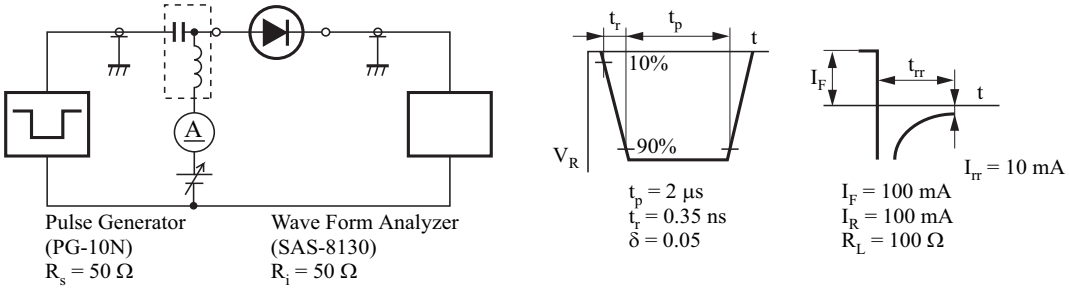
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 1.0 A			0.4	V
Reverse current	IR	VR = 6 V			1.5	mA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		43		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 10 mA, RL = 100 Ω		12		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. *1 trr test circuit



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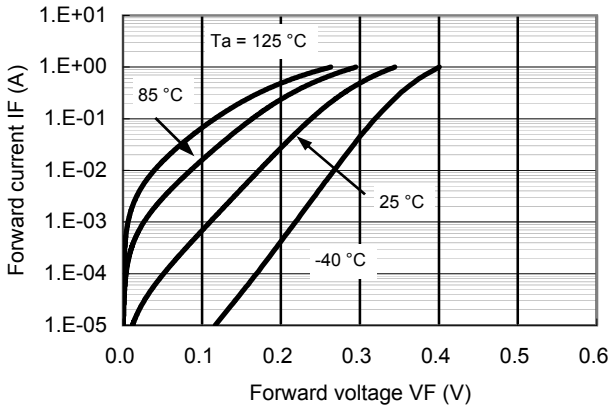
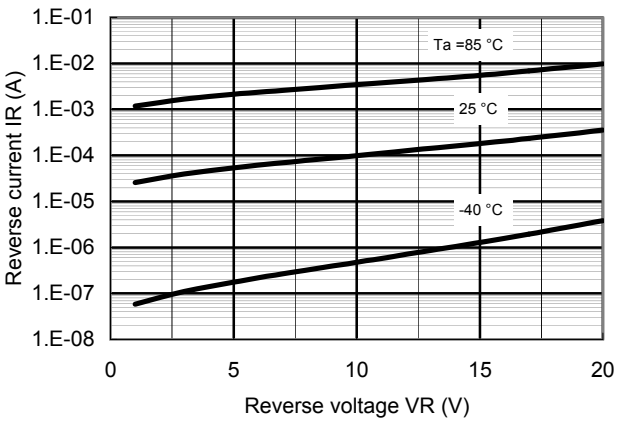
Technical Data (reference)

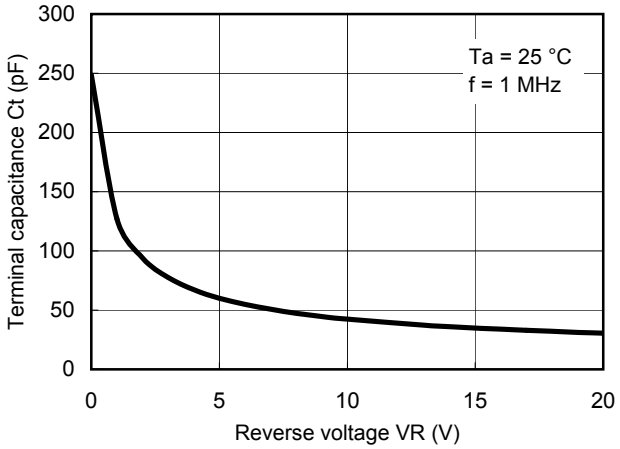
IF - VF



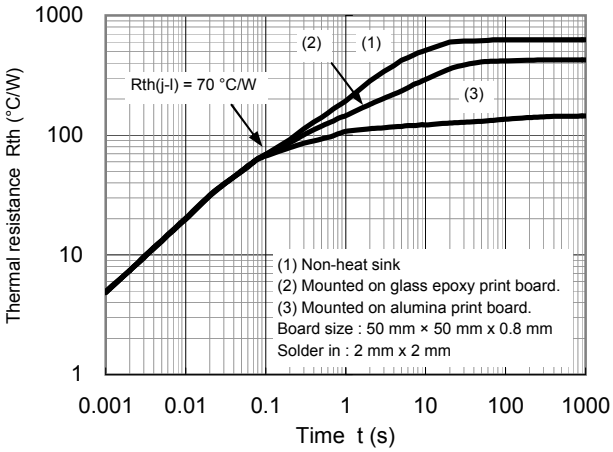
IR - VR



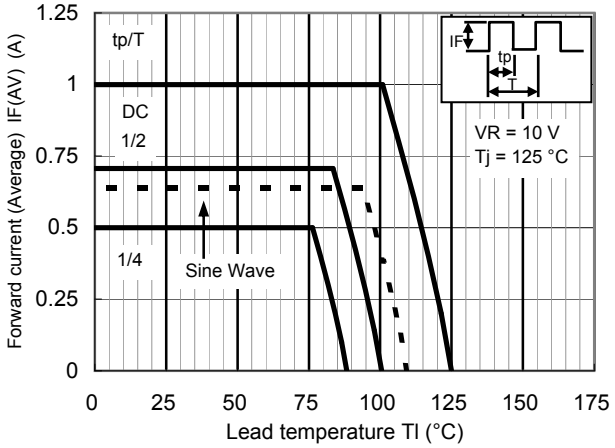
Ct - VR



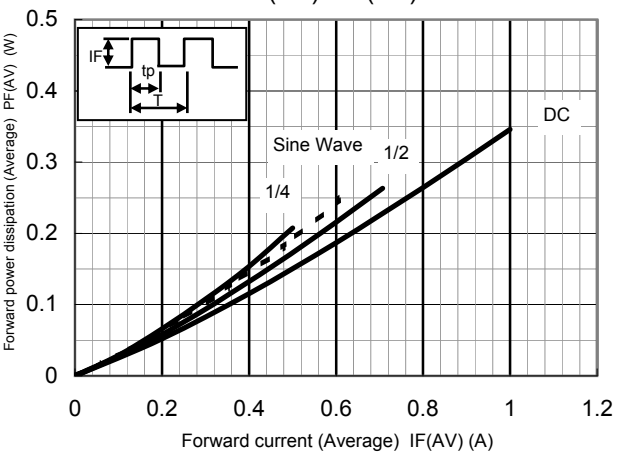
Rth - t



IF(AV) - Tl



PF(AV) - IF(AV)



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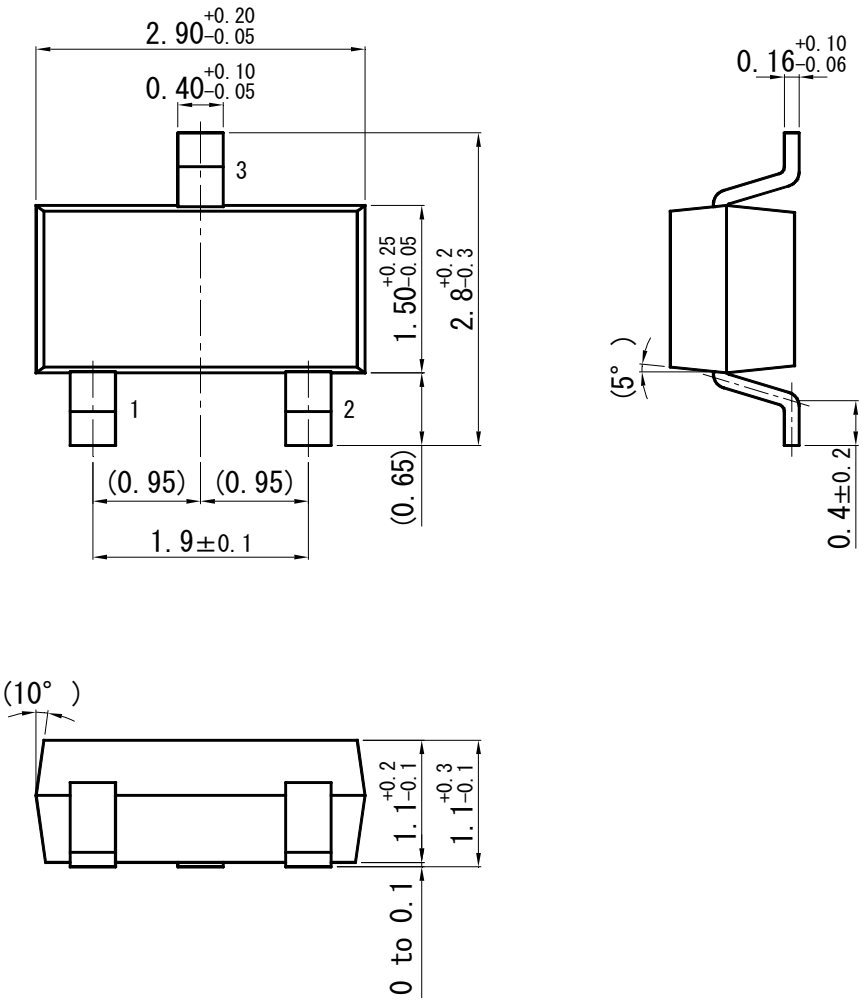
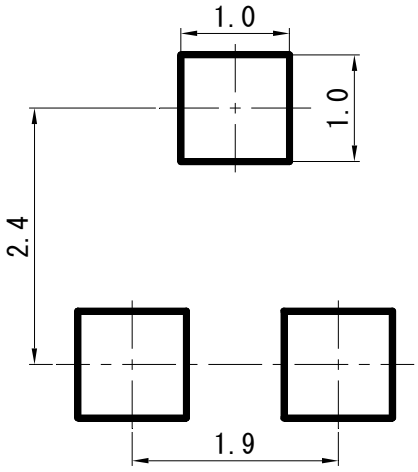
Mini3-G3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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