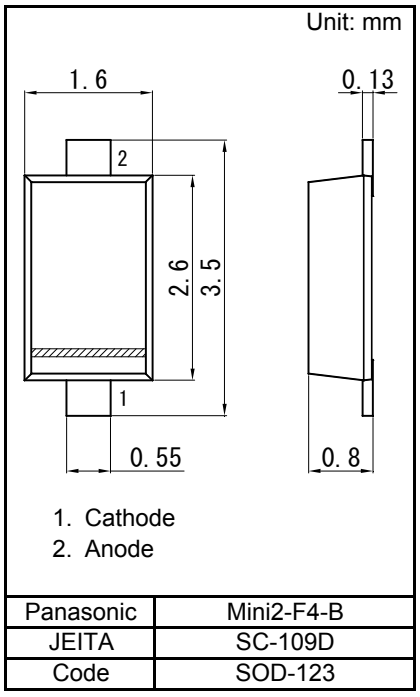
Panasonic

DB2X41100L

Silicon epitaxial planar type

For rectification
DB2J411 in Mini2 type package



Panasonic	Mini2-F4-B
JEITA	SC-109D
Code	SOD-123

■ Features

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

■ Marking Symbol: 4R

■ Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Forward current (average) *1	IF(AV)	1	A
Non-repetitive peak forward surge current *2	IFSM	7	A
Junction temperature *1	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note: *1 Tl = 80 °C
*2 50 Hz sine wave 1 cycle (Non-repetitive peak current)

Internal Connection

Established : 2011-06-30
Revised : 2013-04-24

Schottky Barrier Diode

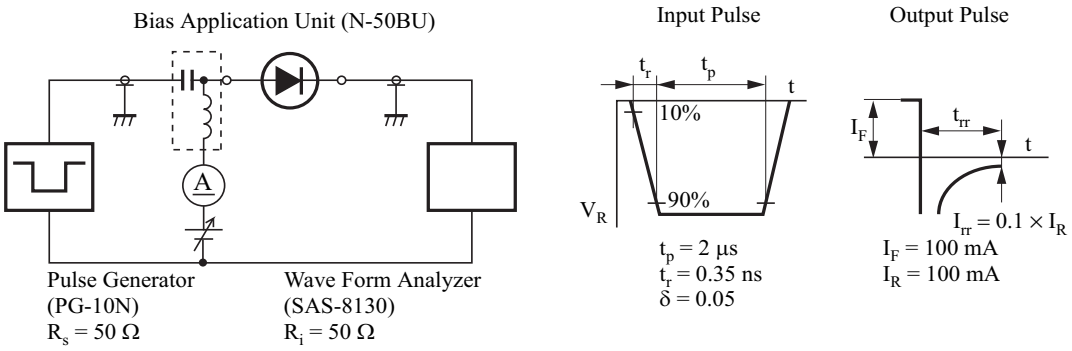
Panasonic

DB2X41100L

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 1 A		0.50	0.58	V
Reverse current	IR	VR = 40 V		15	100	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		21		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1 × IR		6.8		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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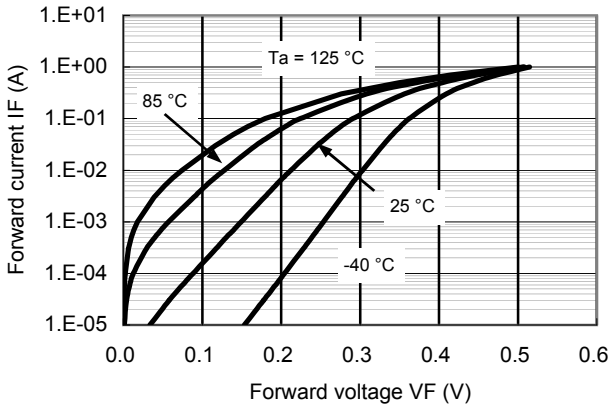
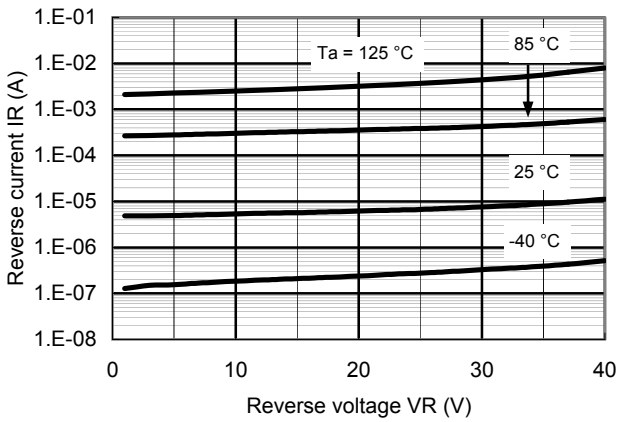
Schottky Barrier Diode
DB2X41100L

Technical Data (reference)

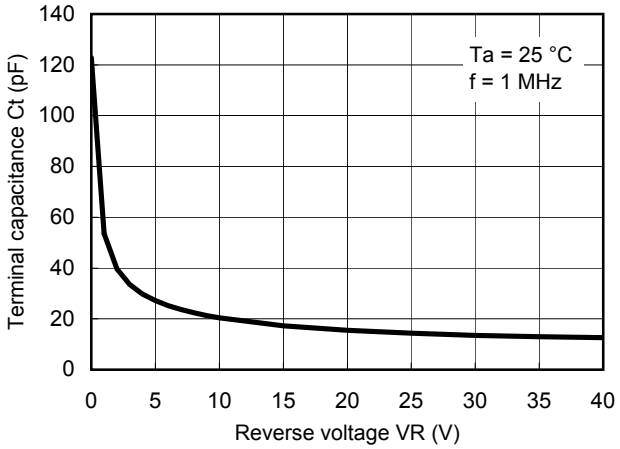
IF - VF



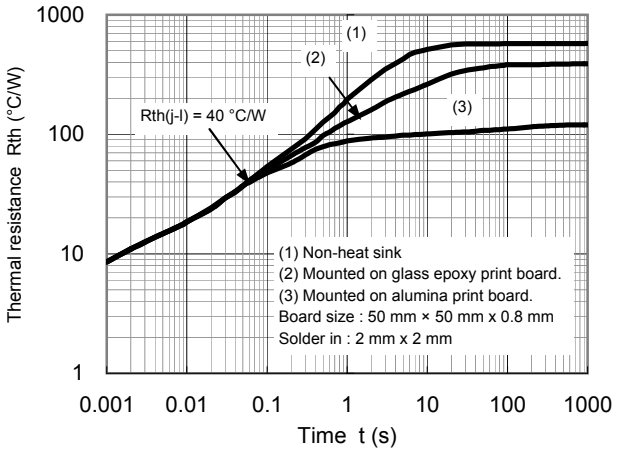
IR - VR



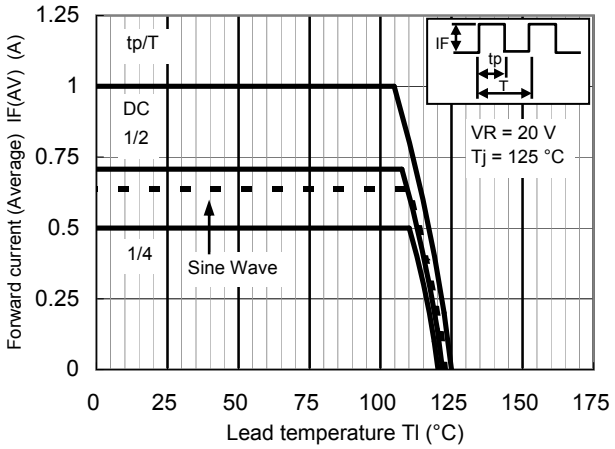
Ct - VR



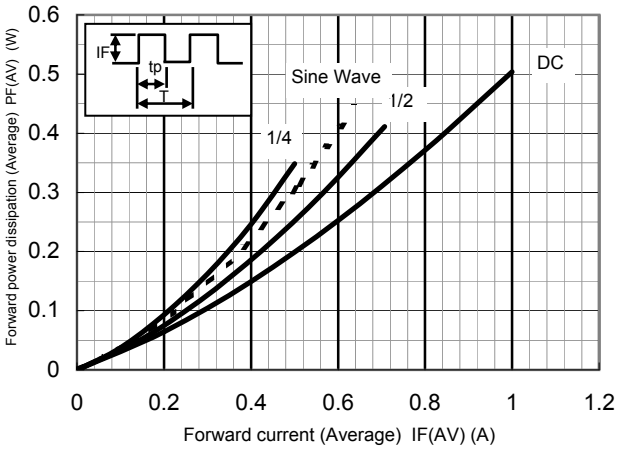
Rth - t



IF(AV) - Tl



PF(AV) - IF(AV)



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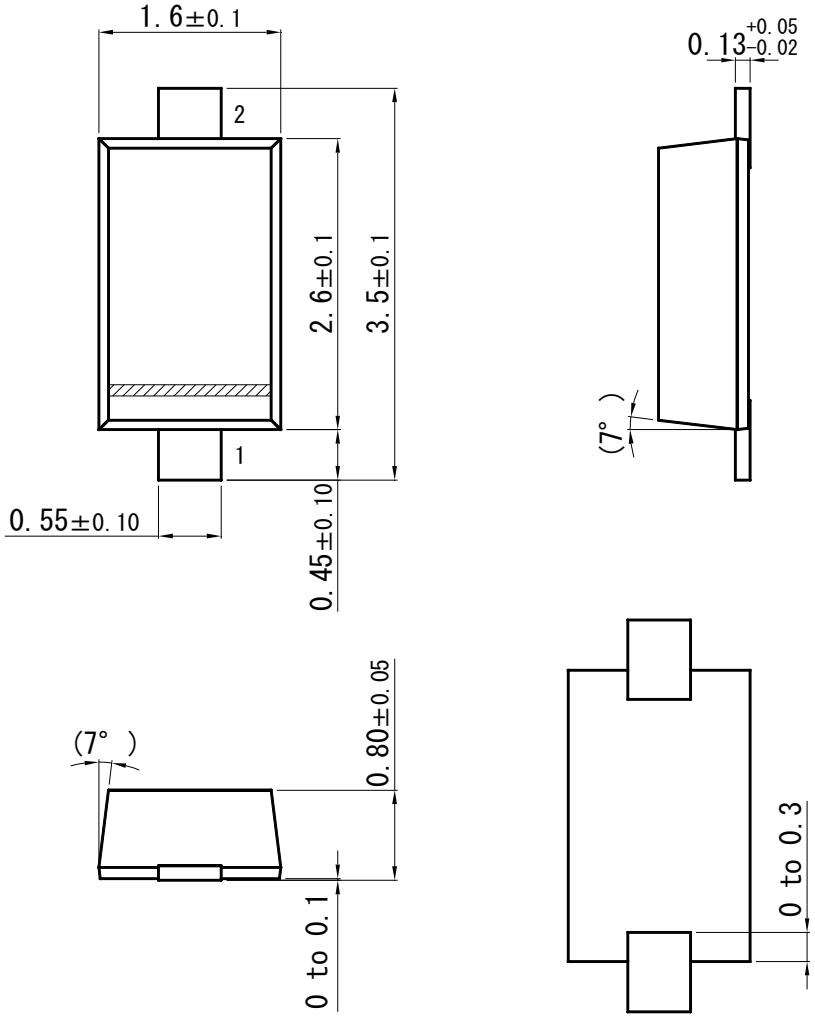
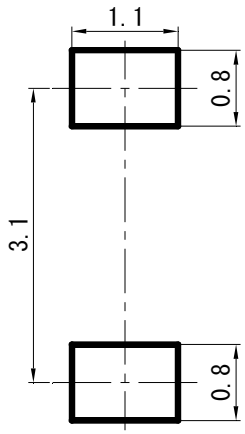
Mini2-F4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



Established : 2011-06-30
Revised : 2013-04-24

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(6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.

20100202

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