Schottky Barrier Diode

DB2W31900L

# **Panasonic**

## DB2W31900L

## Silicon epitaxial planar type

#### For rectification

#### ■ Features

- Low forward voltage VF
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 3W

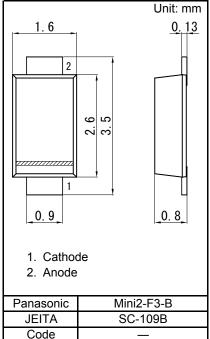
Established: 2010-06-22

Revised

: 2013-05-29

#### ■ Packaging

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

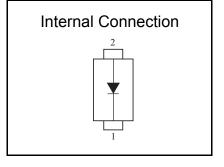


Panasonic	Mini2-F3-B
JEITA	SC-109B
Code	_

## ■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage (direct current)	VR	30	V
Forward current (average) *1	IF(AV)	3	Α
Non-repetitive peak forward surge current *2	IFSM	30	Α
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +125	°C

Note) \*1 For embedded alumina substrate (substrate size: 5 cm×5 cm)



<sup>\*2 50</sup> Hz sine wave 1 cycle (Non-repetitive peak current)

Revision. 4

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

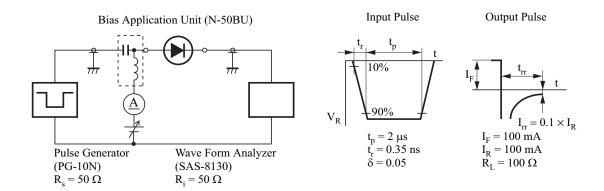
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 3 A		0.42	0.49	V
Reverse current	IR	VR = 30 V		50	200	μΑ
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		70		pF
Reverse recovery time *1	trr	IF = IR = 100 mA,		23		ns
	"	Irr = $0.1 \times IR$ , RL = $100 \Omega$				113

- 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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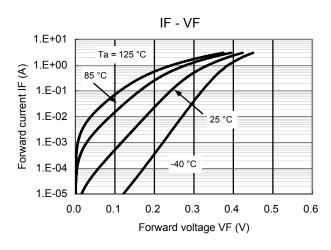
: 2013-05-29

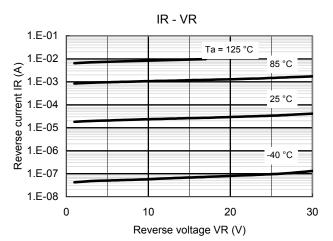


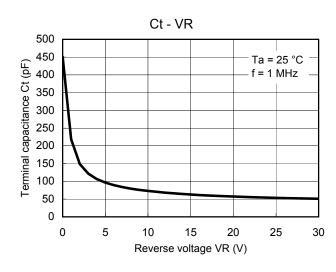
# **Panasonic**

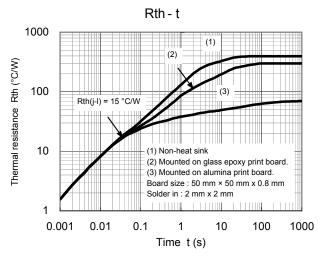
Schottky Barrier Diode DB2W31900L

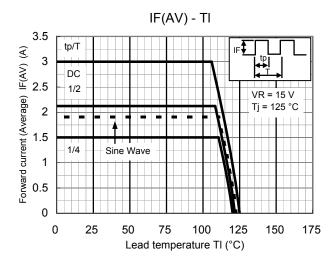
## Technical Data (reference)

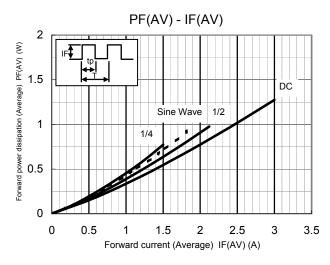












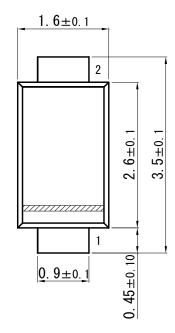
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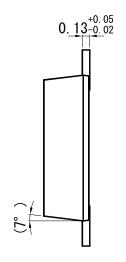
Schottky Barrier Diode

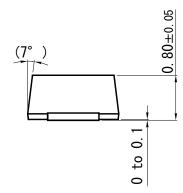
DB2W31900L

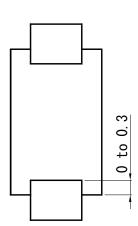
Mini2-F3-B

Unit: mm

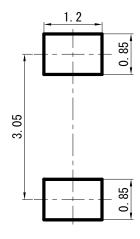








■ Land Pattern (Reference) (Unit: mm)



Established: 2010-06-22 Revised: 2013-05-29

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