Doc No. TT4-EA-12043

Revision. 3

Schottky Barrier Diode

### DB2X41400L

Unit: mm

0.13

# **Panasonic**

# DB2X41400L

### Silicon epitaxial planar type

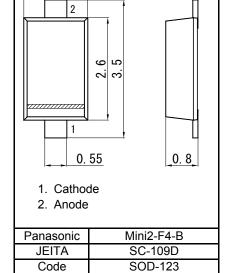
### For high frequency rectification

#### ■ Features

- · Low forward voltage VF
- Forward current (Average) IF(AV) = 2 A rectification is possible
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 4P

#### ■ Packaging

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

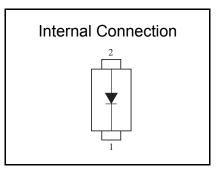


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### ■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Repetitive peak reverse voltage	VRRM	40	V
Forward current (Average) *1	IF(AV)	2	Α
Non-repetitive peak forward surge current *2	IFSM	15	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



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

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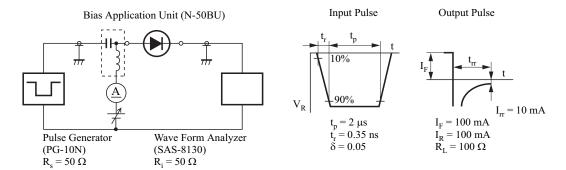
DB2X41400L

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 2A		0.42	0.49	V
Reverse current	IR	VR = 40 V			200	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		70		pF
Reverse recovery time *1	I trr	IF = IR = 100 mA, Irr = 10 mA RL = 100 $\Omega$		30		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

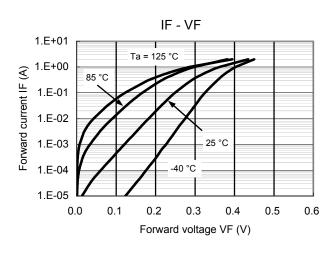


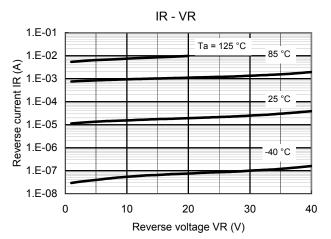
**Panasonic** 

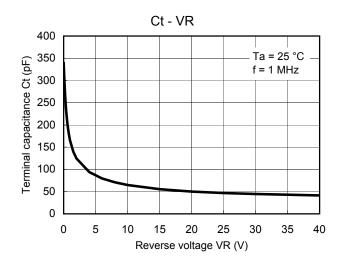
Schottky Barrier Diode

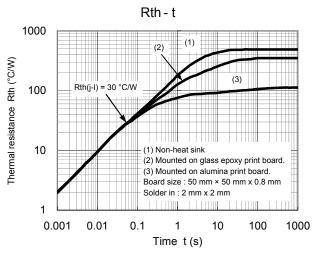
DB2X41400L

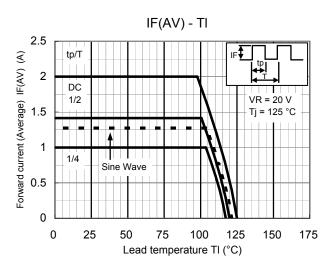
## Technical Data (reference)

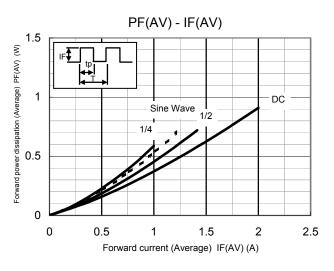








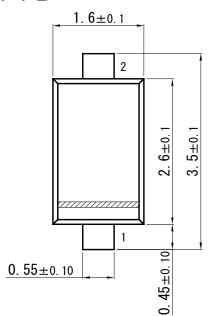


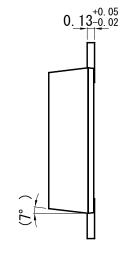


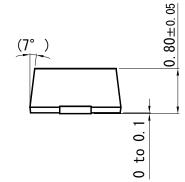
Unit: mm

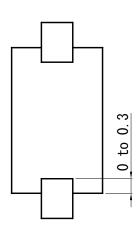
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Mini2-F4-B

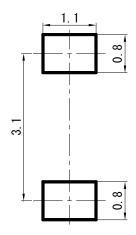








### ■ Land Pattern (Reference) (Unit: mm)



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