



# 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

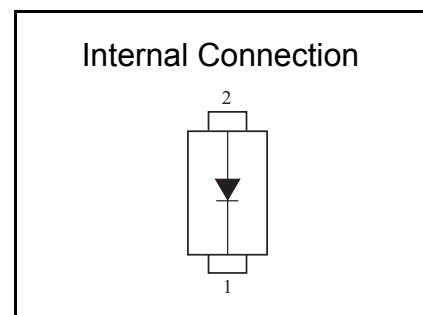
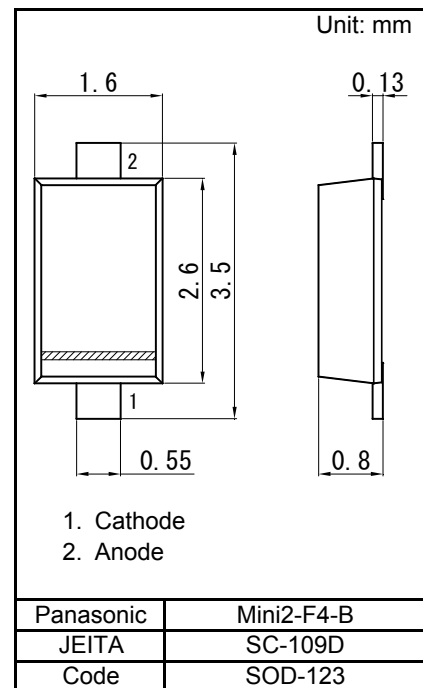
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

### ■ 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	A
Non-repetitive peak forward surge current *2	IFSM	15	A
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

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

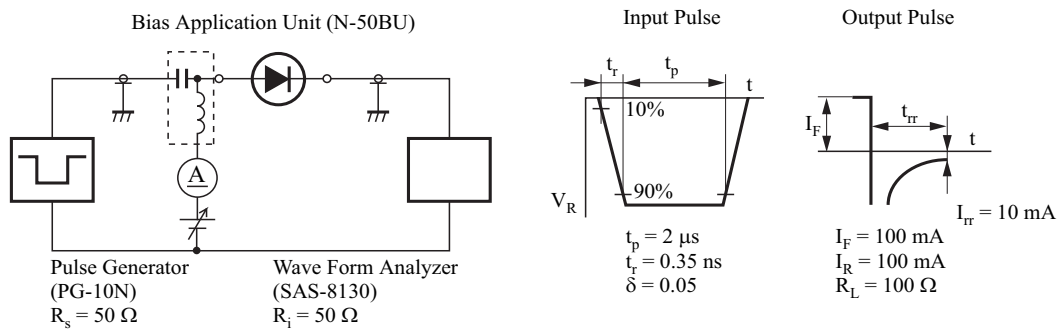




■ Electrical Characteristics Ta = 25 °C ± 3 °C

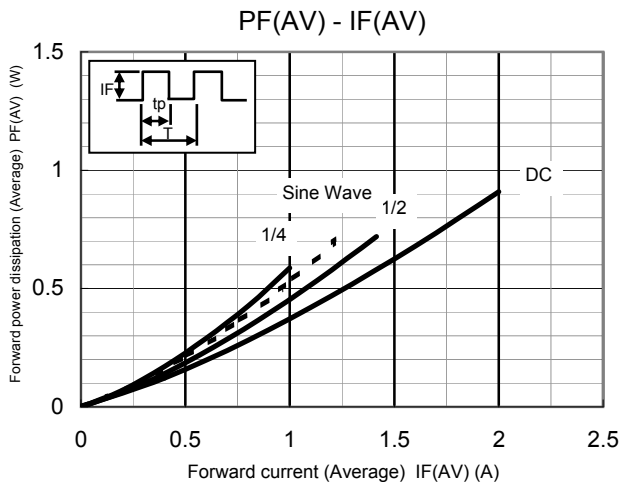
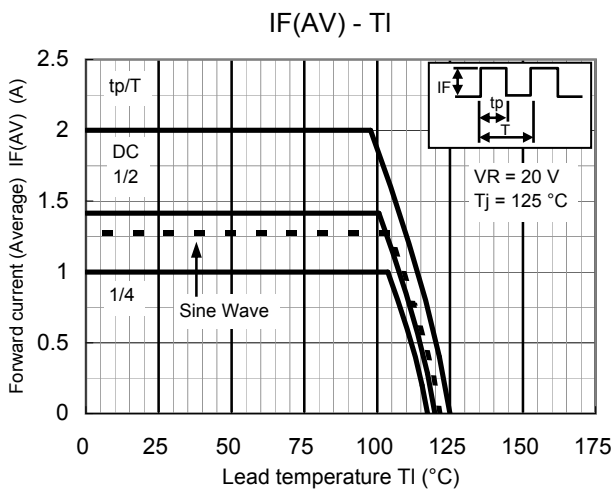
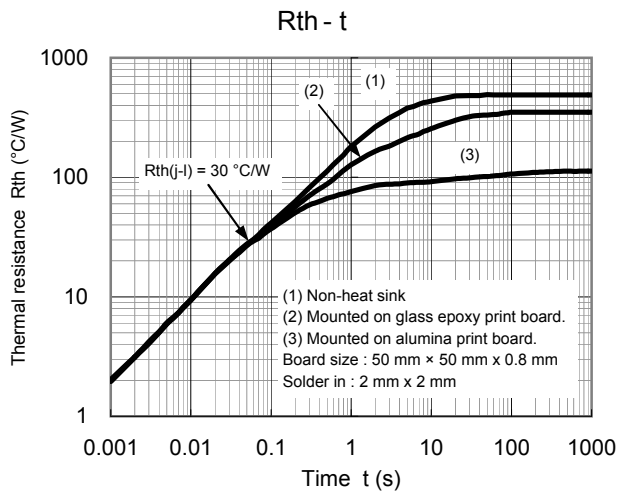
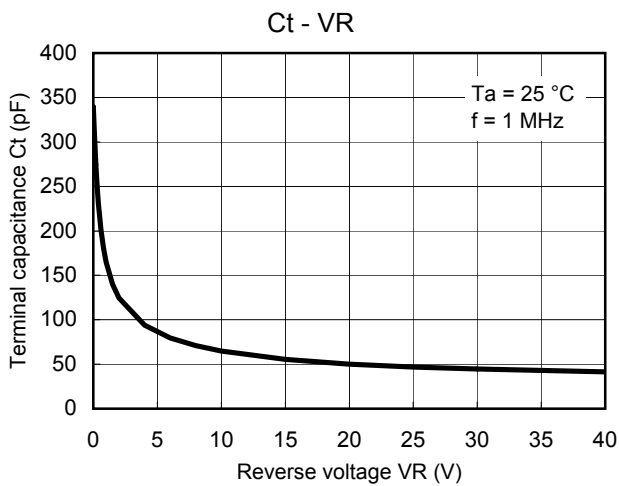
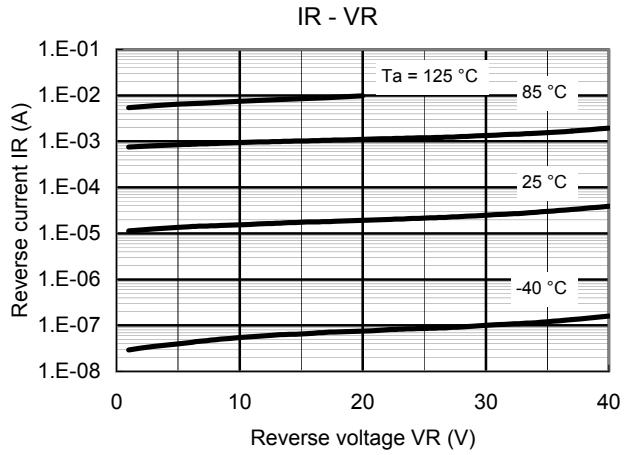
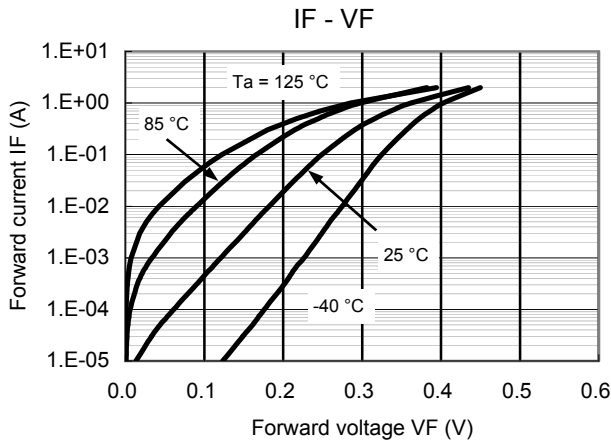
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 2A		0.42	0.49	V
Reverse current	IR	VR = 40 V			200	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		70		pF
Reverse recovery time *1	t <sub>rr</sub>	IF = IR = 100 mA, I <sub>rr</sub> = 10 mA RL = 100 Ω		30		ns

- 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 t<sub>rr</sub> test circuit





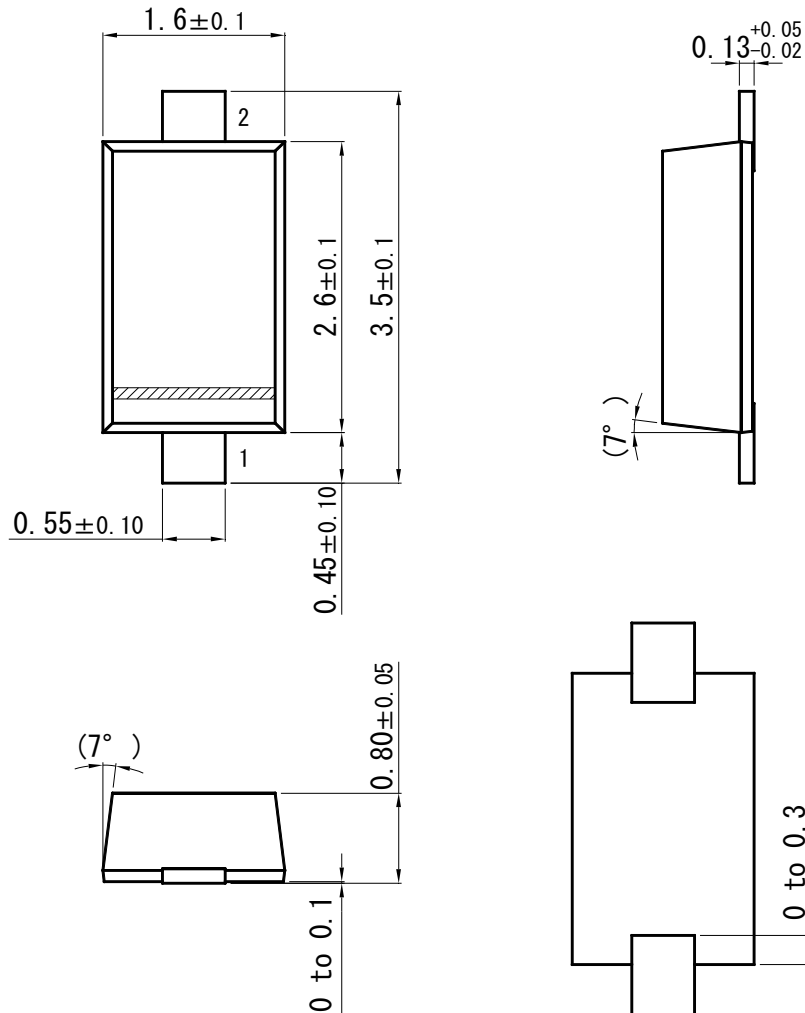
Technical Data ( reference )



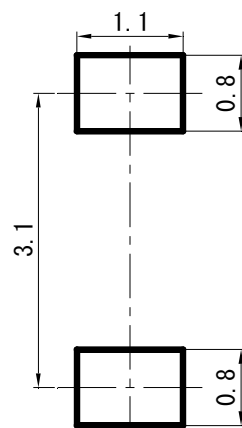
**Panasonic**

Mini2-F4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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take into the consideration of incidence of break down and failure  
n the systems such as redundant design, arresting the spread of fire  
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mounting or at customer's process. When using products for which  
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