



Schottky Barrier Diode
DB2130300L

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Silicon epitaxial planar type

For rectification

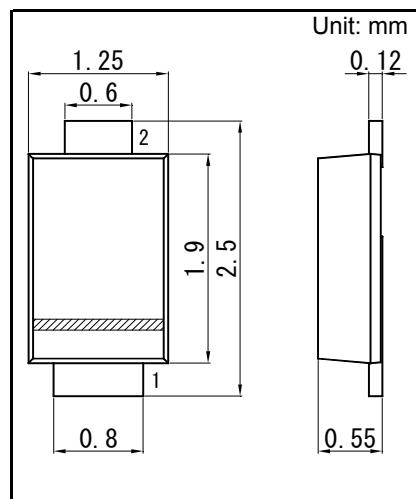
■ Features

- Low forward voltage VF
- Small reverse leakage current
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: B4

■ Packaging

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



1. Cathode
2. Anode

Panasonic	SMini2-F4-B-B
JEITA	SC-108A
Code	—

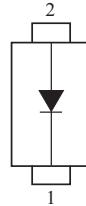
■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	30	V
Maximum peak reverse voltage	VRM	30	V
Forward current (Average) ¹	IF(AV)	1.0	A
Non-repetitive peak forward surge current ²	IFSM	20	A
Junction temperature	T _j	125	°C
Operating ambient temperature	T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +125	°C

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

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

Internal Connection



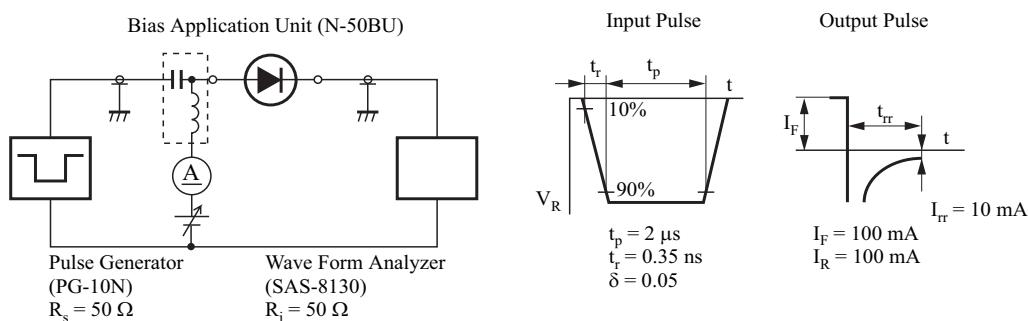
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF1	IF = 0.7 A			0.47	V
	VF2	IF = 1.0 A			0.49	
Reverse current	IR	VR = 30 V			40	μA
Terminal capacitance	C _t	VR = 10 V, f = 1 MHz		33		pF
Reverse recovery time ¹	t _{rr}	IF = IR = 100 mA, I _{rr} = 10 mA		11		ns

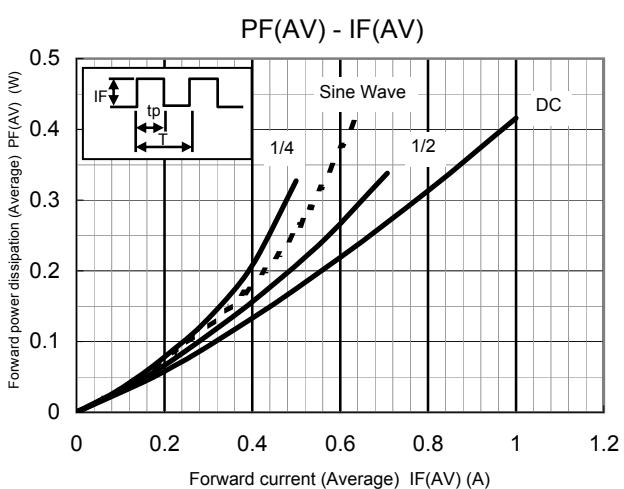
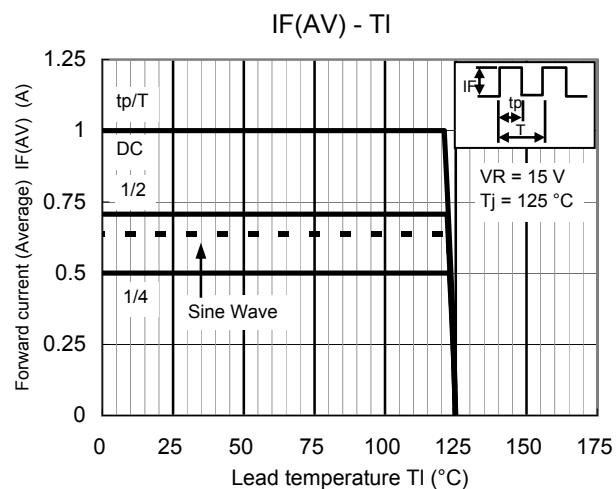
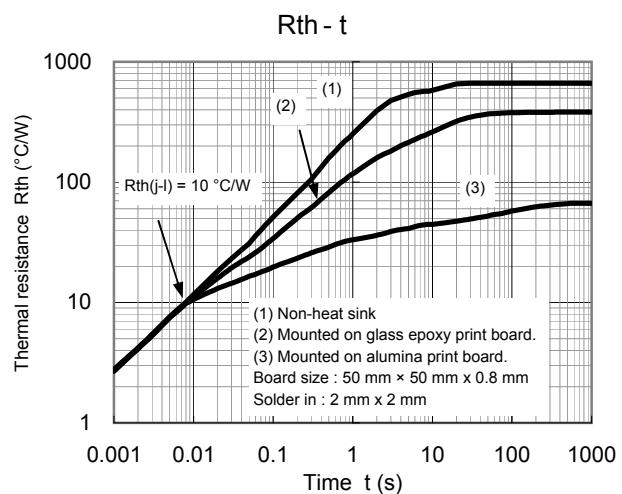
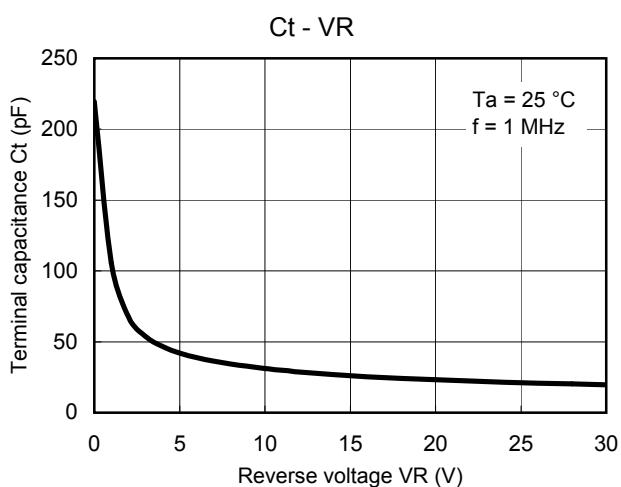
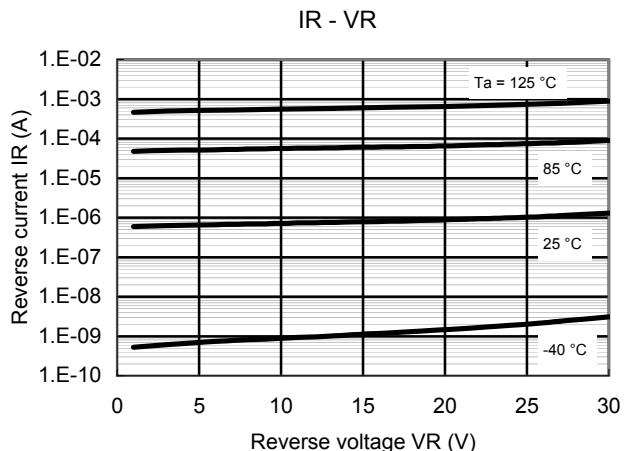
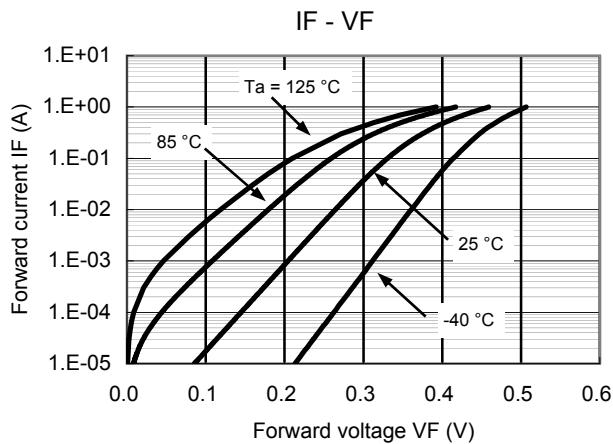
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

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_{rr} trr test circuit



Technical Data (reference)

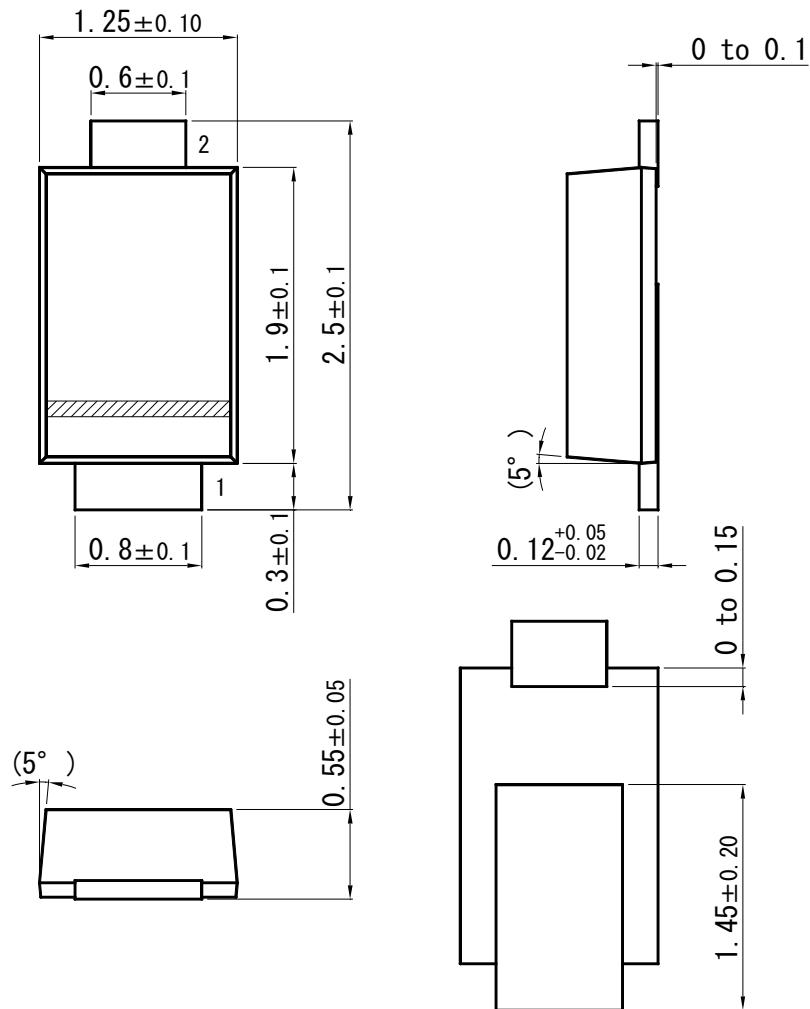


Panasonic

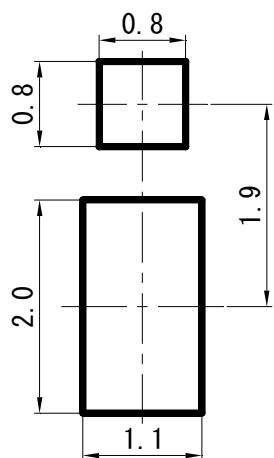
Schottky Barrier Diode
DB2130300L

SMini2-F4-B-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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