



Schottky Barrier Diode
DB2141300L

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Silicon epitaxial planar type

For rectification

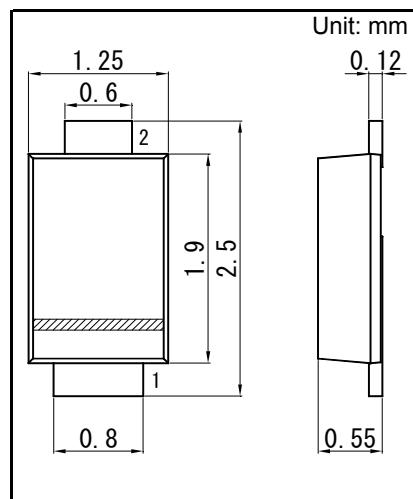
■ Features

- Low forward voltage and small reverse leakage current
- Forward current (Average) $IF(AV) = 2\text{ A}$ rectification is possible
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 4N

■ Packaging

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



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

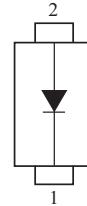
■ Absolute Maximum Ratings $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage (direct current)	VR	40	V
Forward current (average) ¹	IF(AV)	2.0	A
Non-repetitive peak forward surge current ²	IFSM	30	A
Junction temperature ¹	T _j	150	°C
Operating ambient temperature	T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +150	°C

Note: *1 $T_l = 80\text{ }^\circ\text{C}$

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

Internal Connection

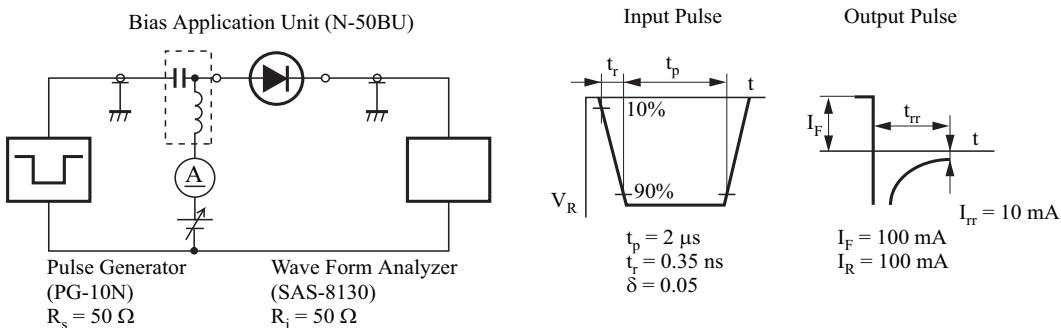


■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

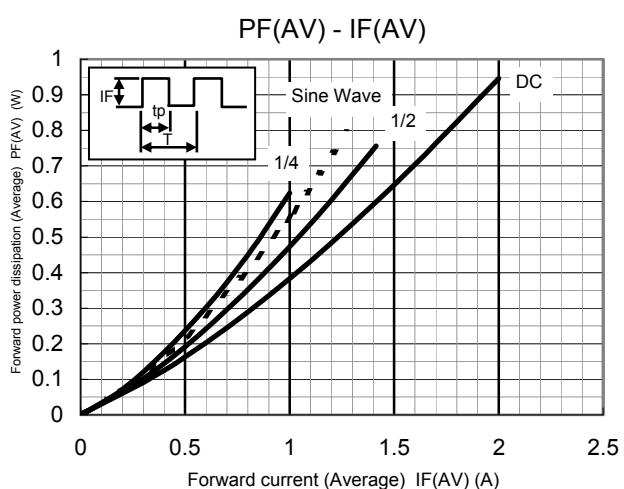
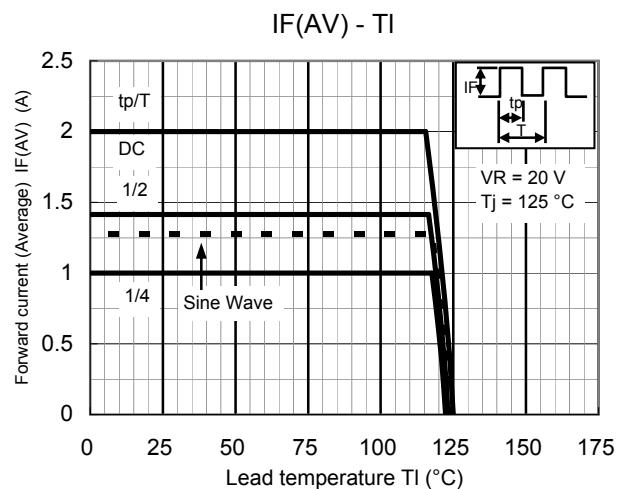
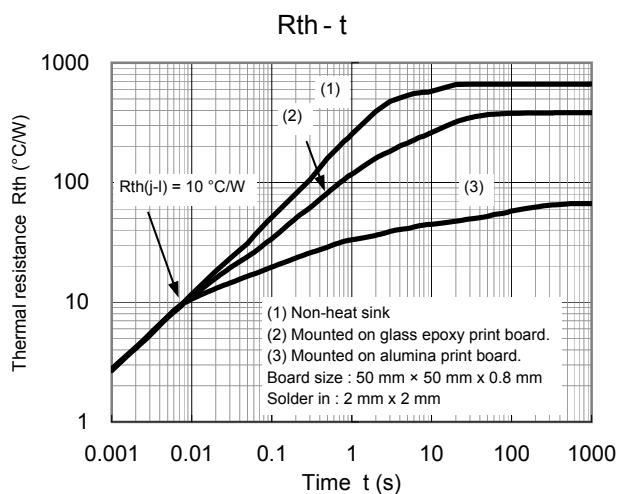
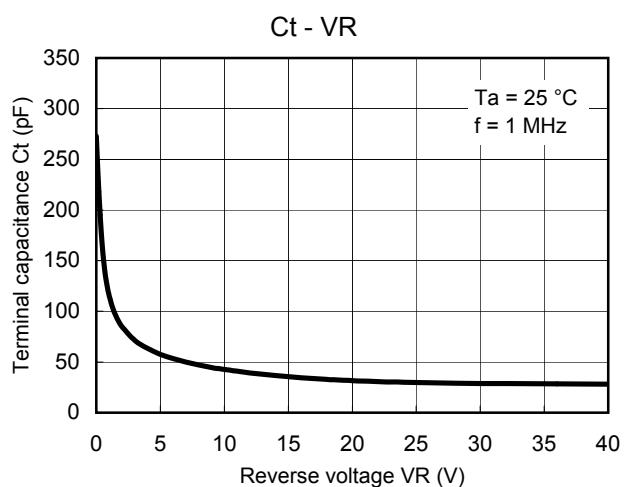
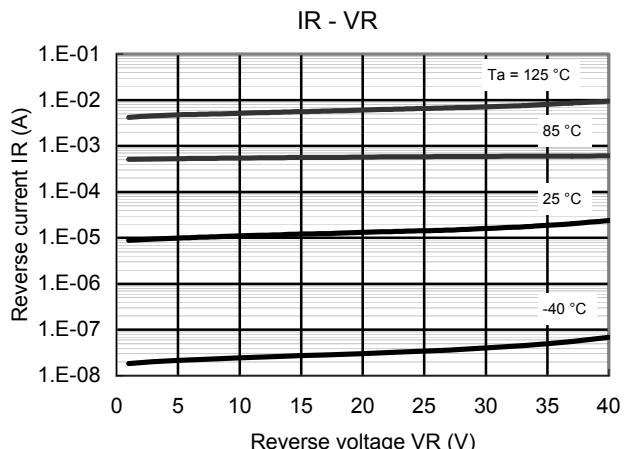
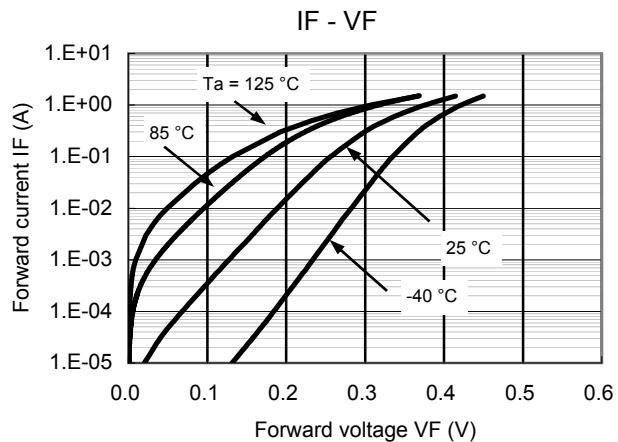
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 2.0 A		0.46	0.53	V
Reverse current	IR	VR = 40 V		25	150	μA
Terminal capacitance	C _t	VR = 10 V, f = 1 MHz		43		pF
Reverse recovery time ¹	t _{rr}	IF = IR = 100 mA, I _{rr} = 10 mA		12		ns

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} test circuit

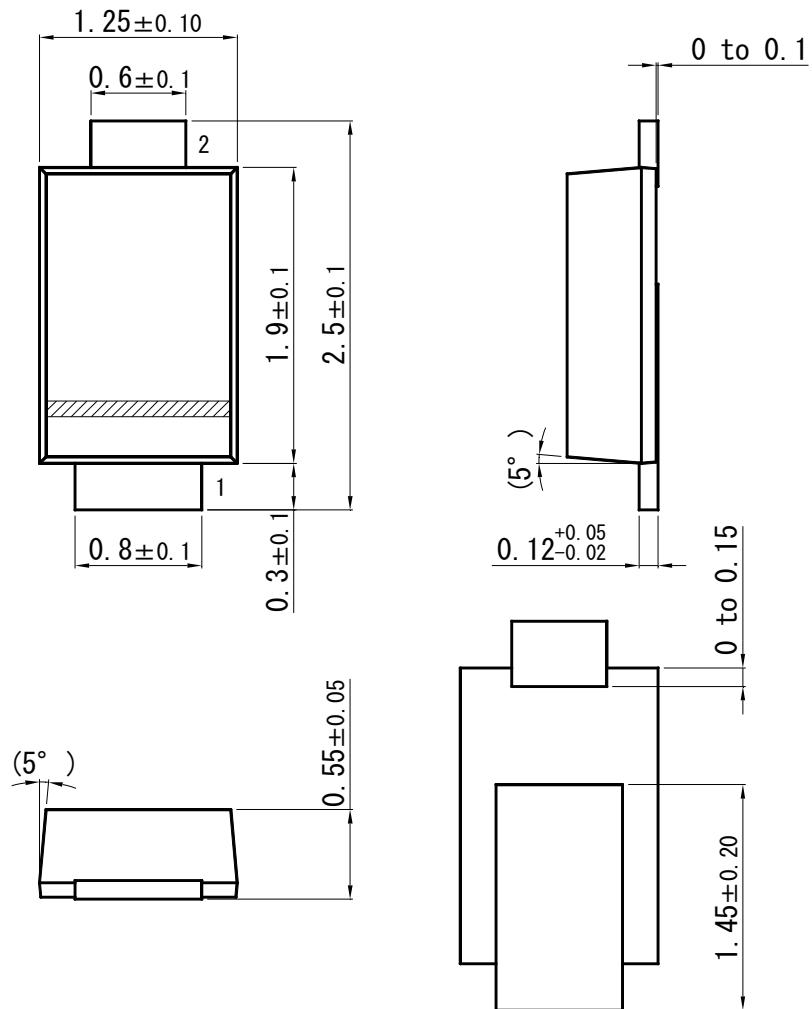


Technical Data (reference)

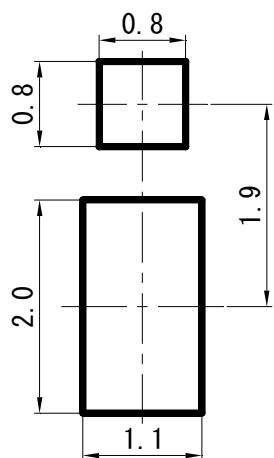


SMini2-F4-B-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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