

Panasonic

Schottky Barrier Diode
DB2441600L

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Silicon epitaxial planar type

For rectification

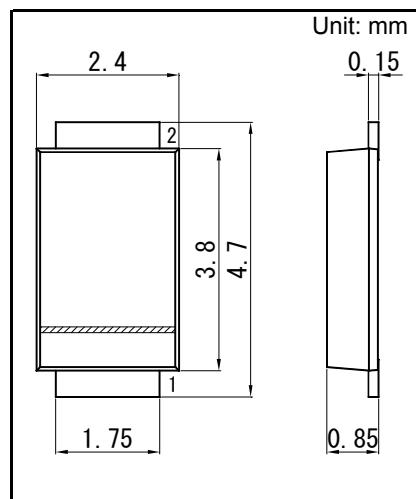
■ Features

- Low forward voltage VF
- Forward current (Average) IF(AV) = 3 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)



1. Cathode
2. Anode

Panasonic	TMiniP2-F2-B
JEITA	SC-110A
Code	—

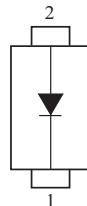
■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Forward current (Average) ^{*1}	IF(AV)	3.0	A
Non-repetitive peak forward surge current ^{*2}	IFSM	50	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



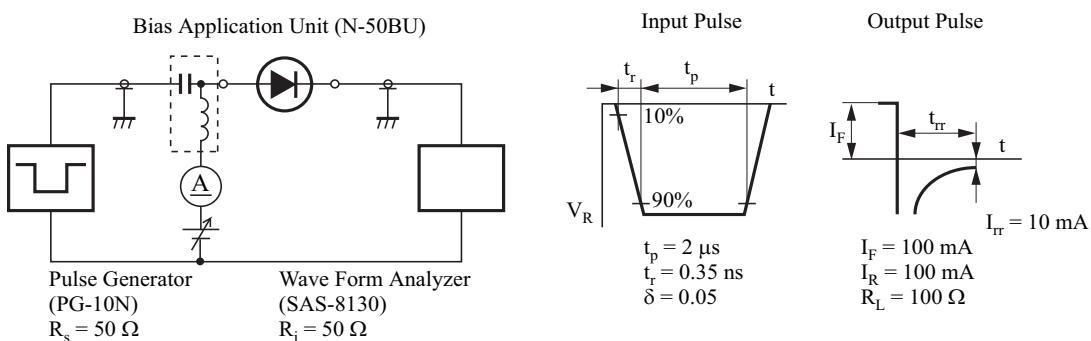
■ Electrical Characteristics $T_a = 25 \text{ }^{\circ}\text{C} \pm 3 \text{ }^{\circ}\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 3.0 A		0.40	0.45	V
Reverse current	IR	VR = 40 V		60	300	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		95		pF
Reverse recovery time ¹	trr	IF = IR = 100 mA Irr = 10 mA, RL = 100 Ω		30		ns

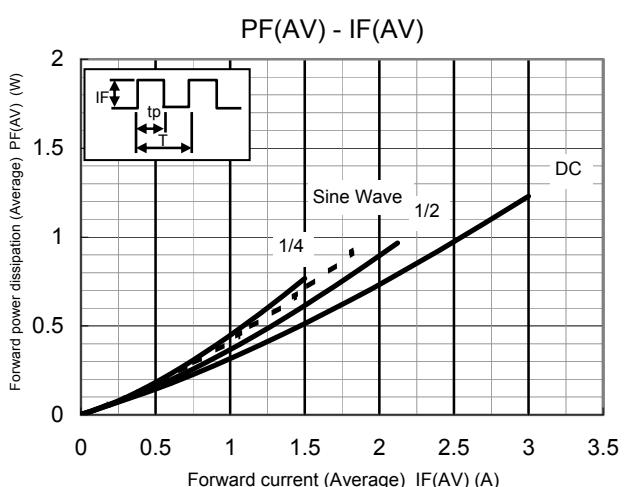
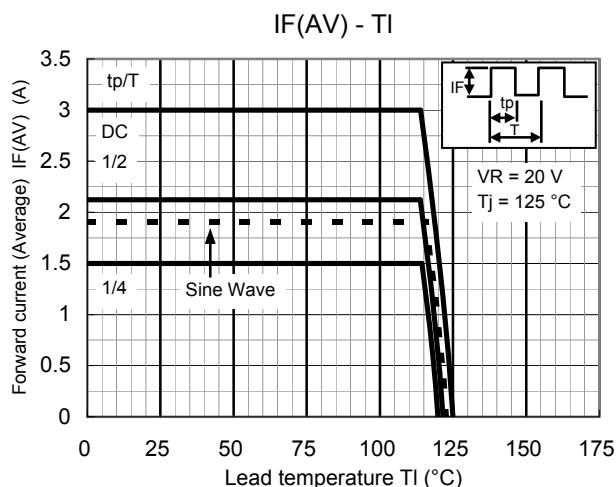
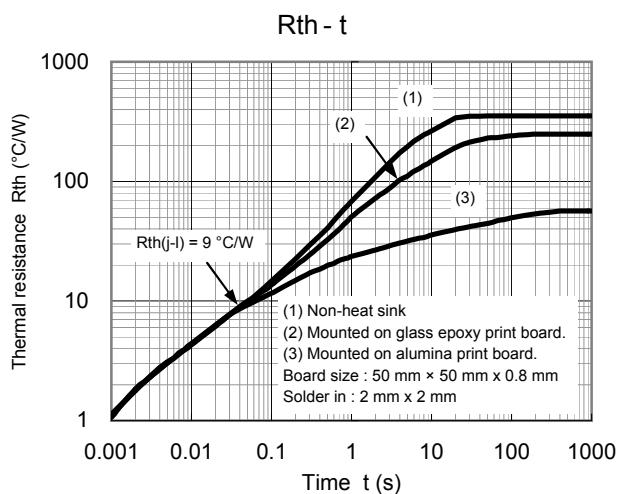
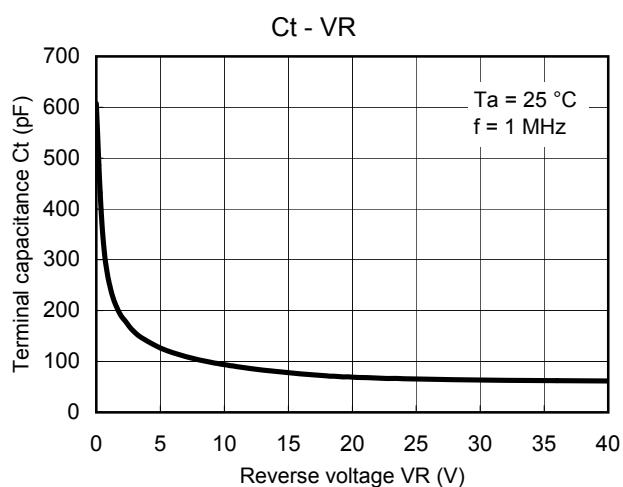
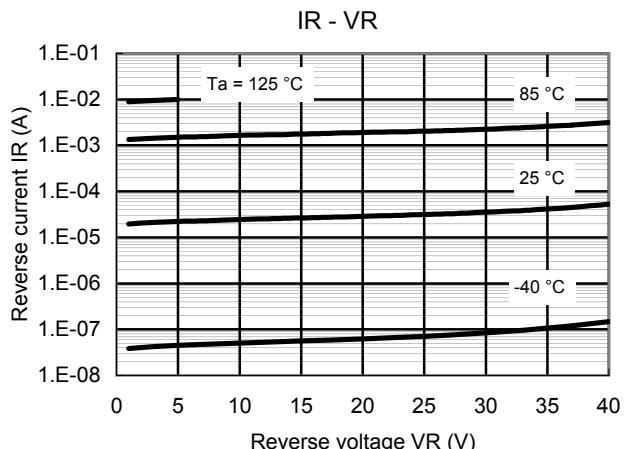
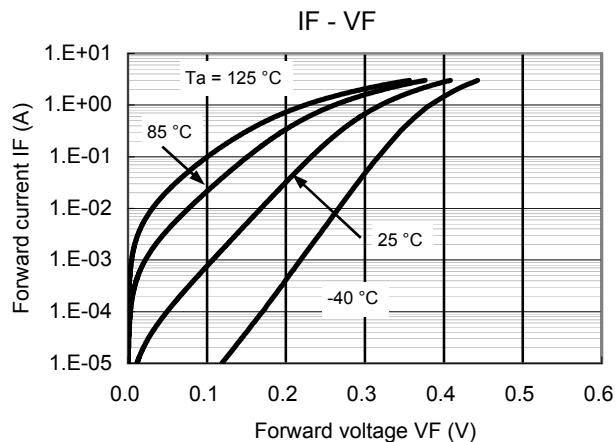
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

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 trr test circuit



Technical Data (reference)

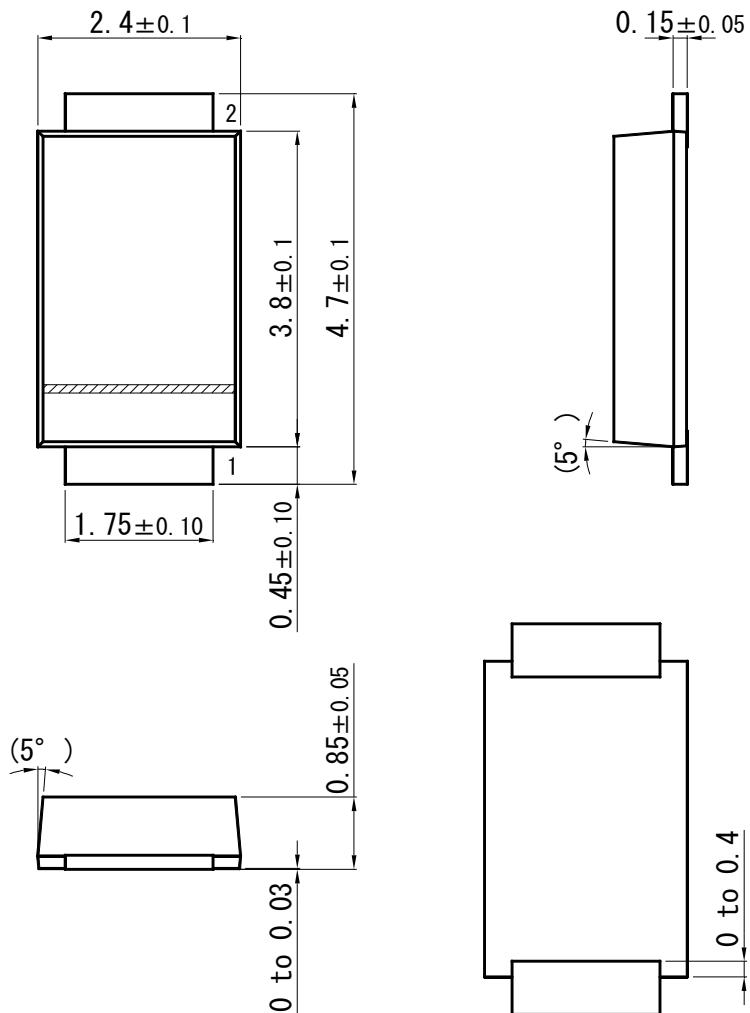


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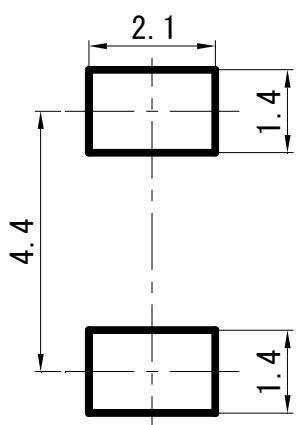
Schottky Barrier Diode
DB2441600L

TMiniP2-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru