

Panasonic

DB2130300L

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

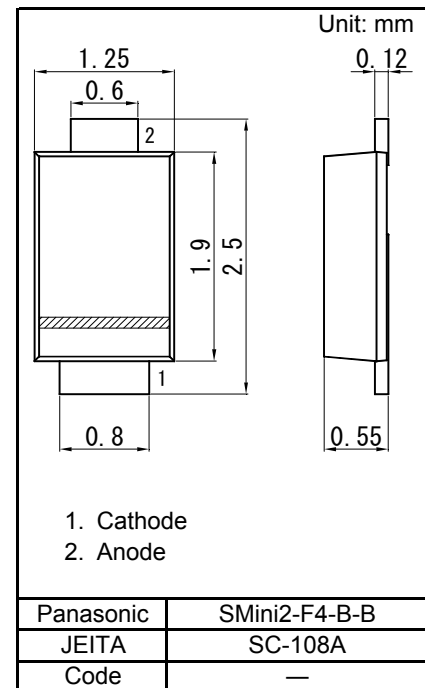
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ 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	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-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

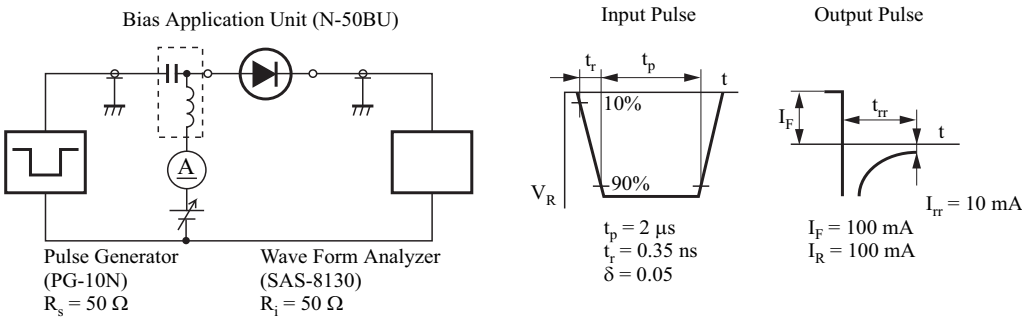




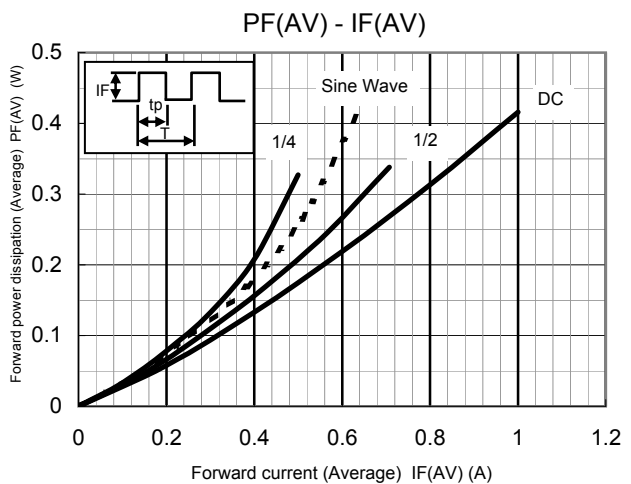
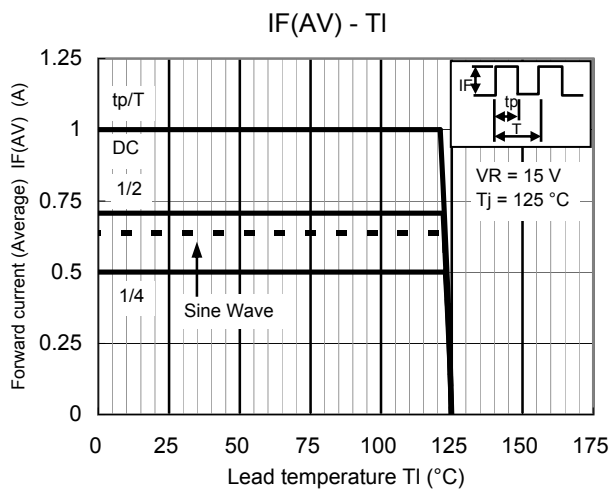
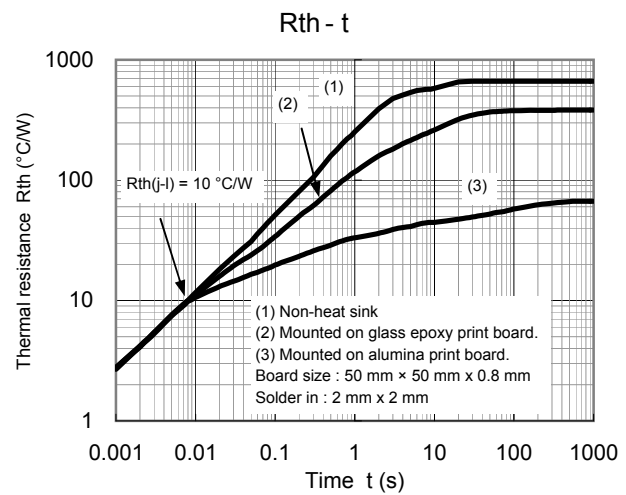
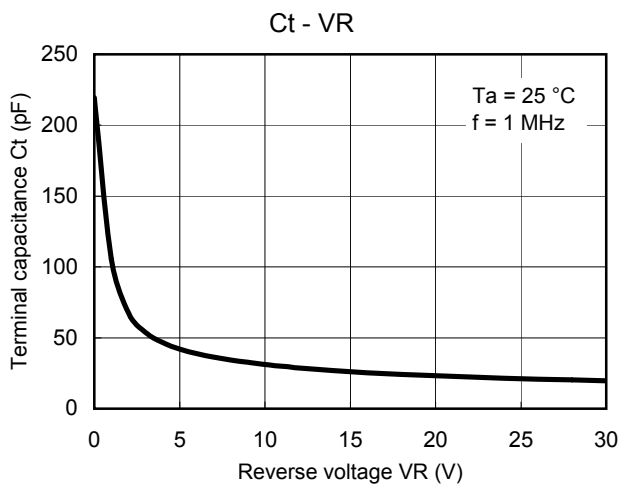
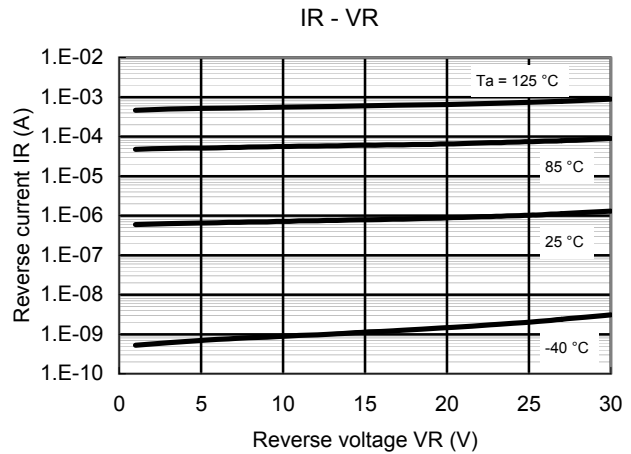
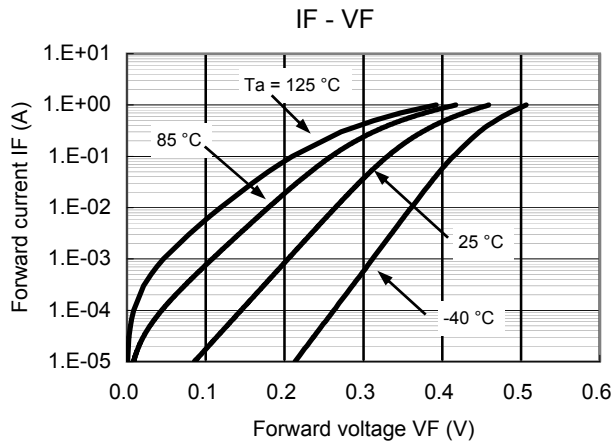
■ Electrical Characteristics Ta = 25 °C ± 3 °C

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	Ct	VR = 10 V, f = 1 MHz		33		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 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 trr test circuit



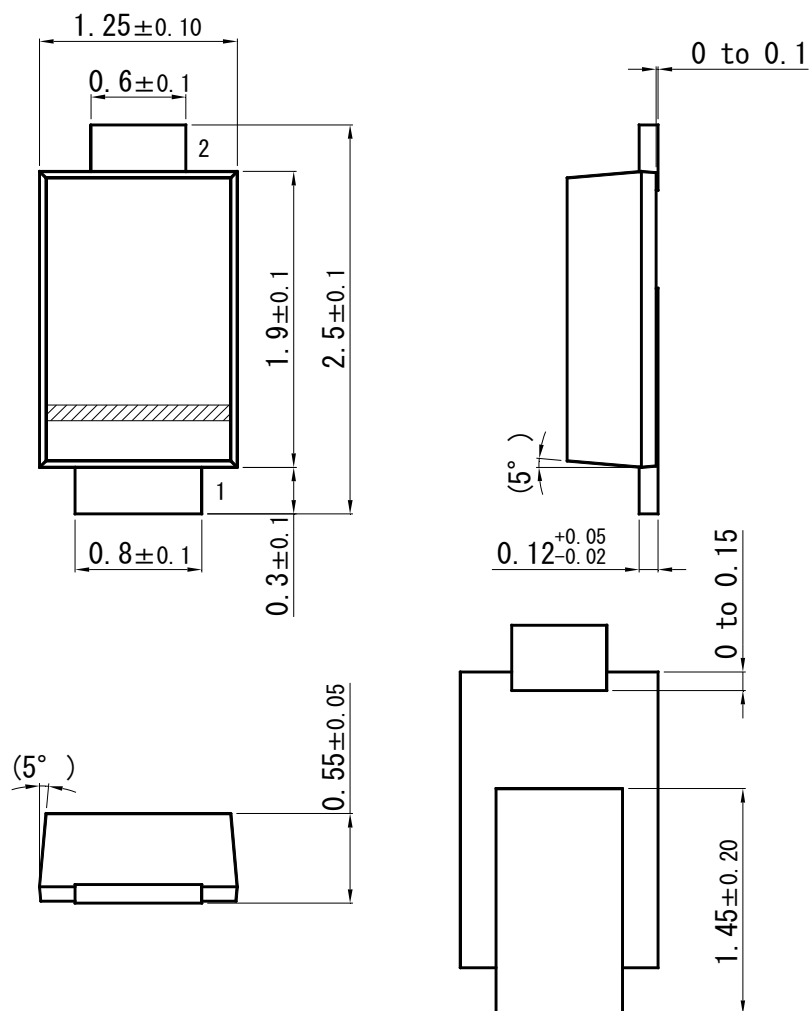
Technical Data (reference)



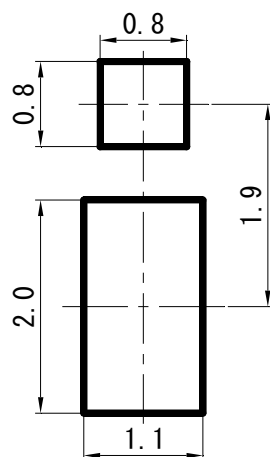
Panasonic

SMini2-F4-B-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

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moschip.ru_9