



# DB2141300L

Silicon epitaxial planar type

For rectification

■ Features

- Low forward voltage and small reverse leakage current
- 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: 4N

■ Packaging

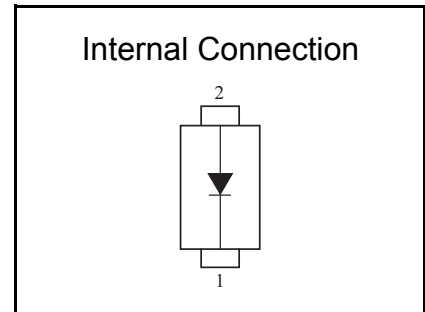
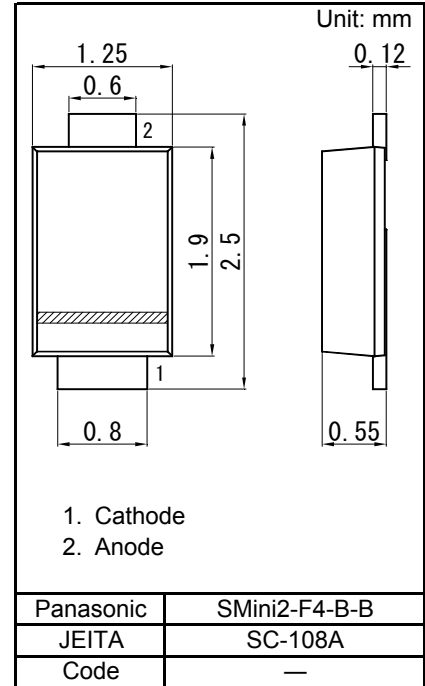
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage (direct current)	VR	40	V
Forward current (average) <sup>*1</sup>	IF(AV)	2.0	A
Non-repetitive peak forward surge current <sup>*2</sup>	IFSM	30	A
Junction temperature <sup>*1</sup>	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note: \*1 Tl = 80 °C

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



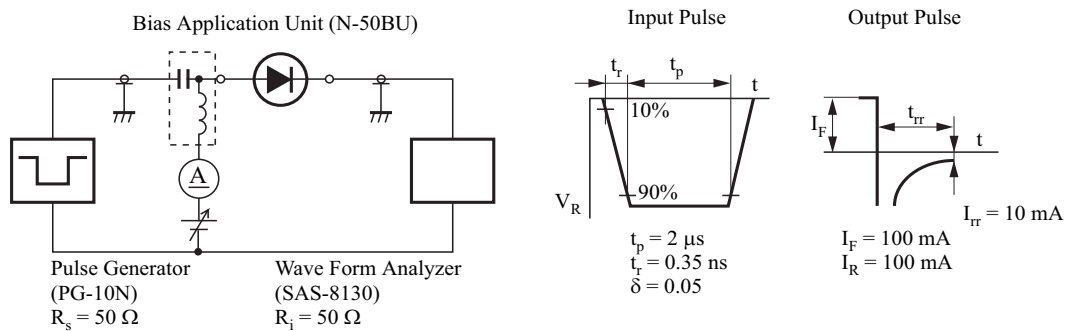


■ Electrical Characteristics  $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 2.0 A		0.46	0.53	V
Reverse current	IR	VR = 40 V		25	150	$\mu\text{A}$
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		43		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 10 mA		12		ns

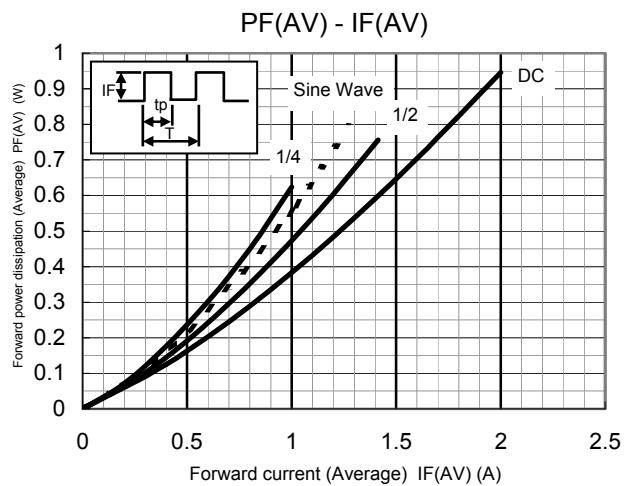
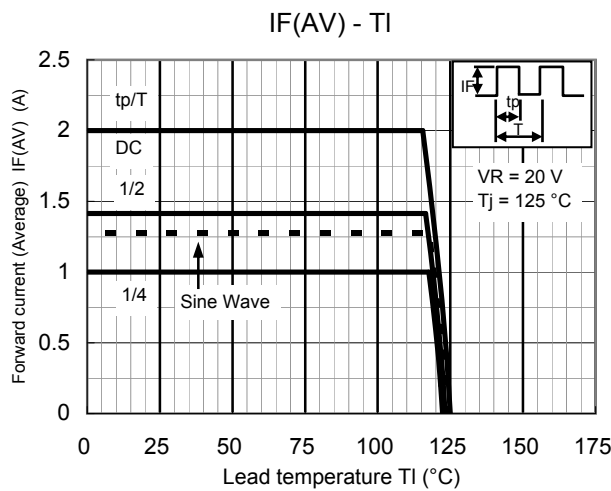
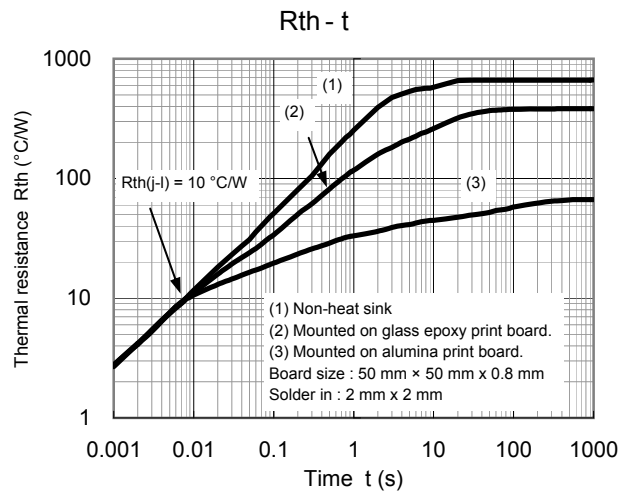
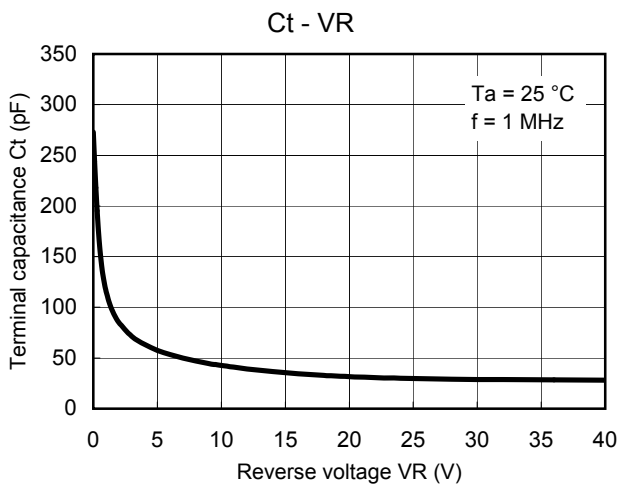
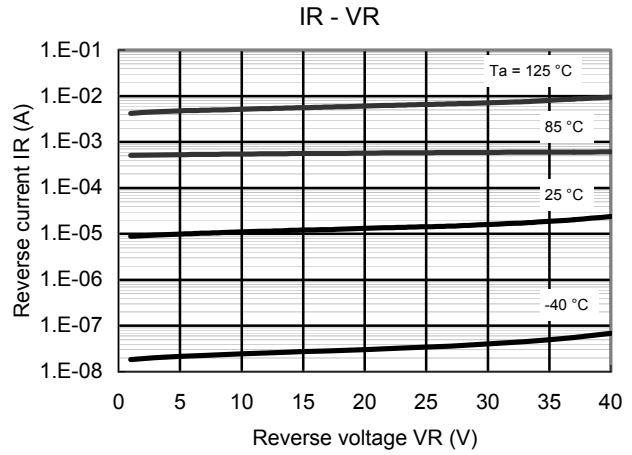
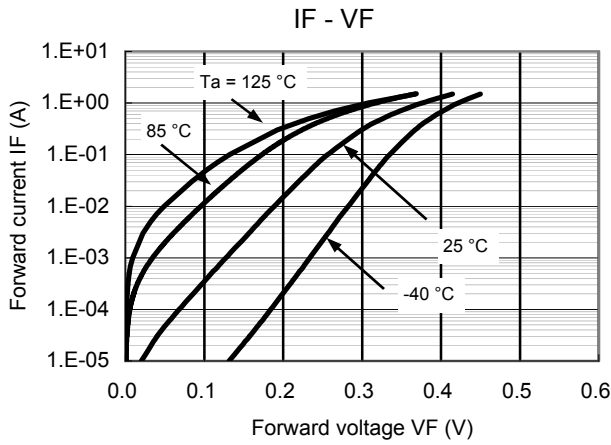
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

- 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.
- \*1 trr test circuit





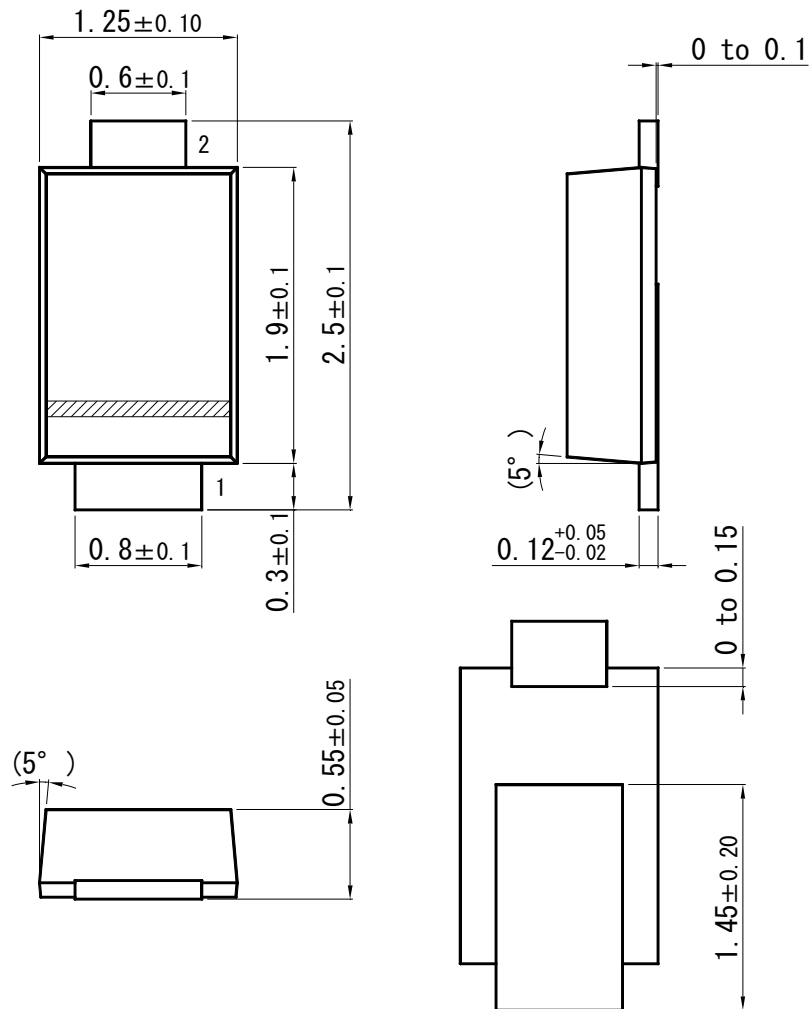
Technical Data ( reference )



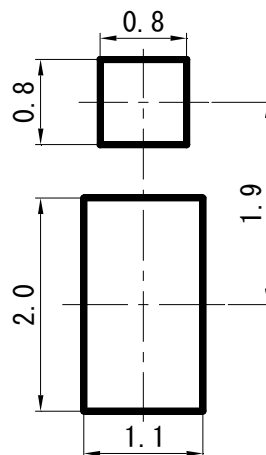


### SMini2-F4-B-B

Unit: mm



#### ■ Land Pattern (Reference) (Unit: mm)



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