



## DB2141300L

Silicon epitaxial planar type

For rectification

### ■ Features

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

### ■ Marking Symbol: 4N

### ■ Packaging

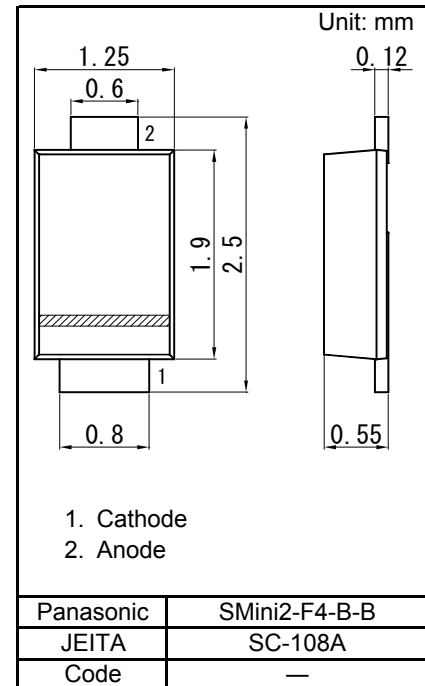
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Reverse voltage (direct current)	VR	40	V
Forward current (average) <sup>*1</sup>	$I_F(AV)$	2.0	A
Non-repetitive peak forward surge current <sup>*2</sup>	IFSM	30	A
Junction temperature <sup>*1</sup>	$T_j$	150	°C
Operating ambient temperature	$T_{opr}$	-40 to +85	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

Note: <sup>\*1</sup>  $T_I = 80^\circ\text{C}$

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



### Internal Connection

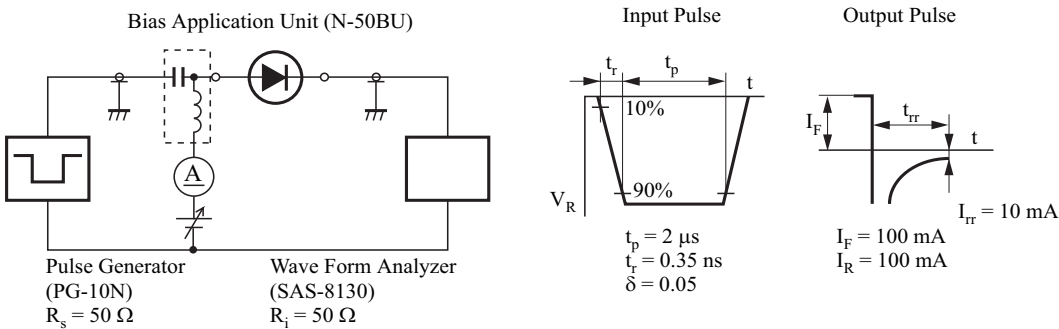




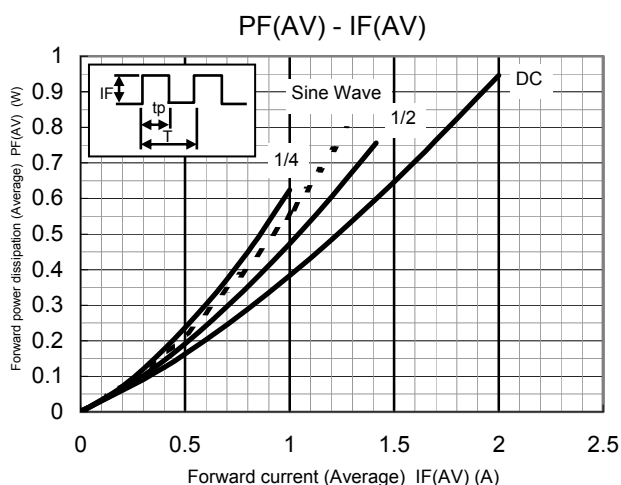
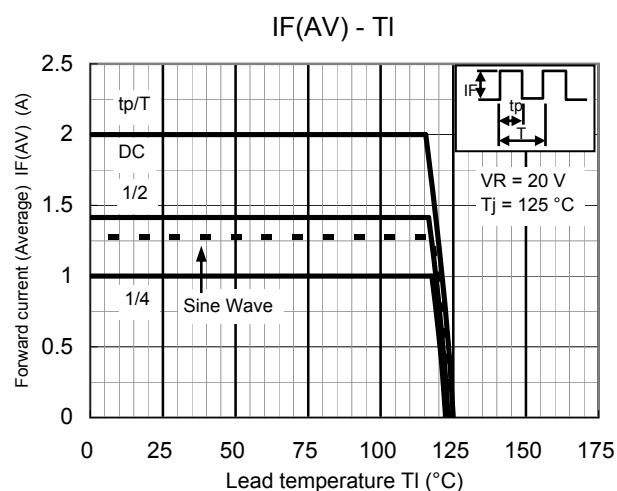
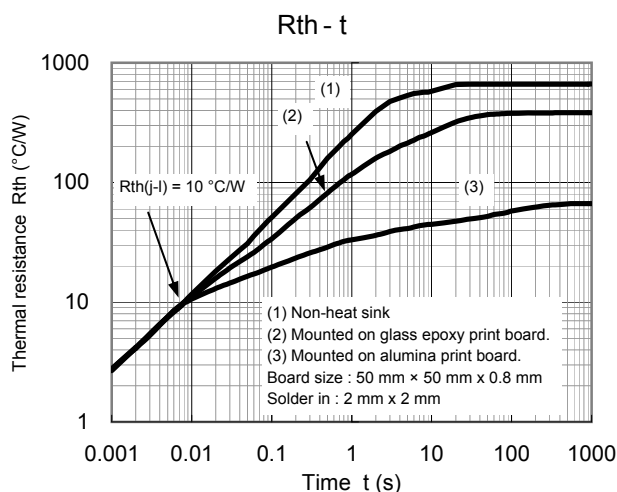
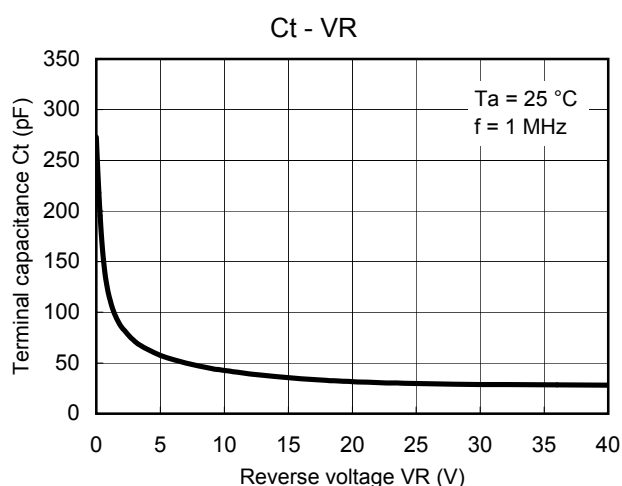
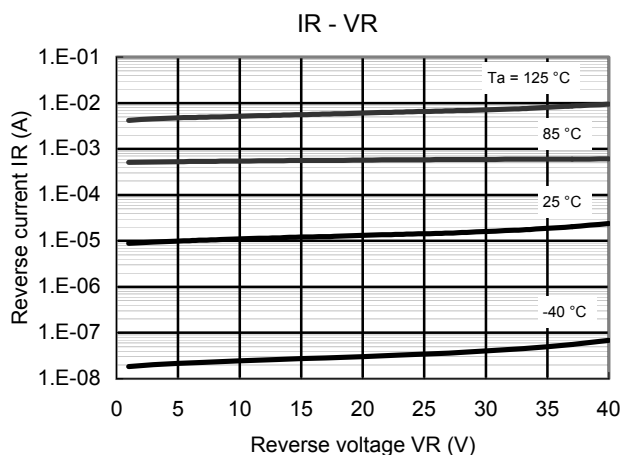
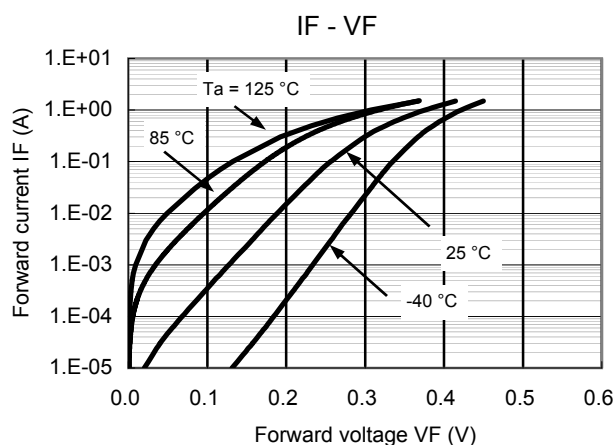
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 2.0 A		0.46	0.53	V
Reverse current	IR	VR = 40 V		25	150	μA
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.  
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



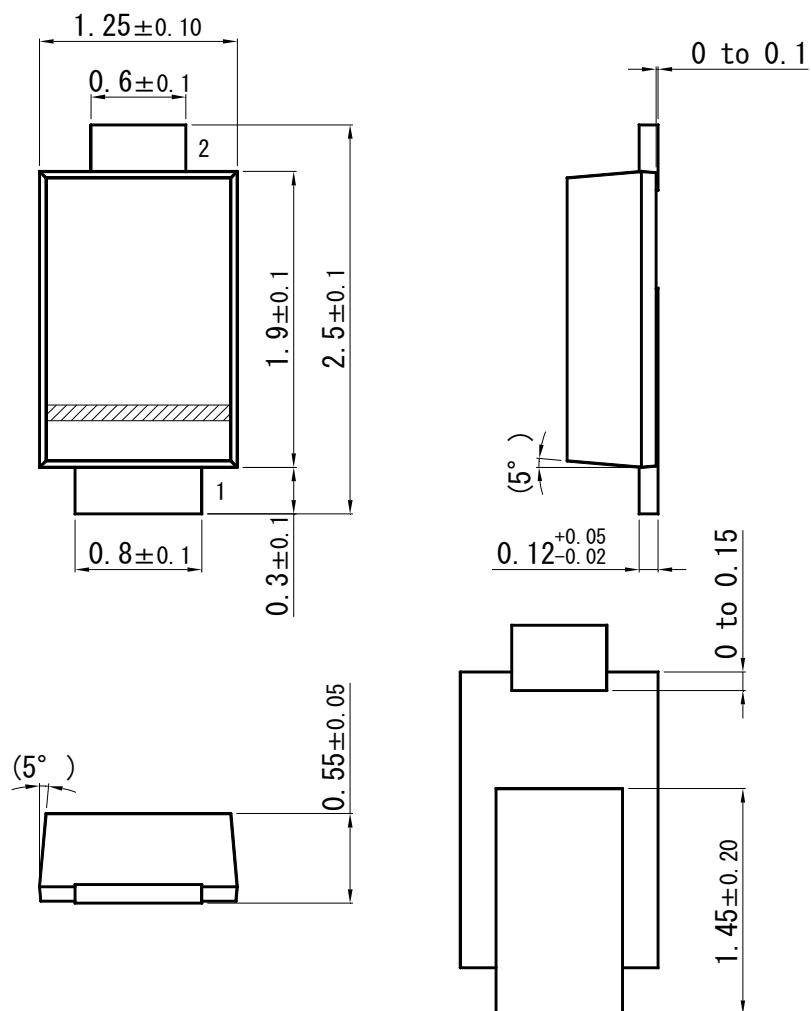
Technical Data ( reference )



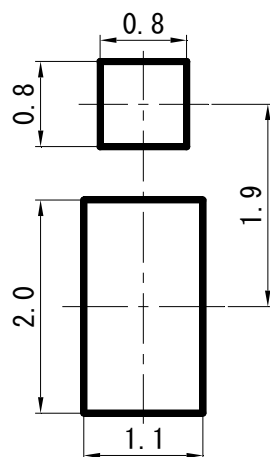
**Panasonic**

SMini2-F4-B-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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