



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

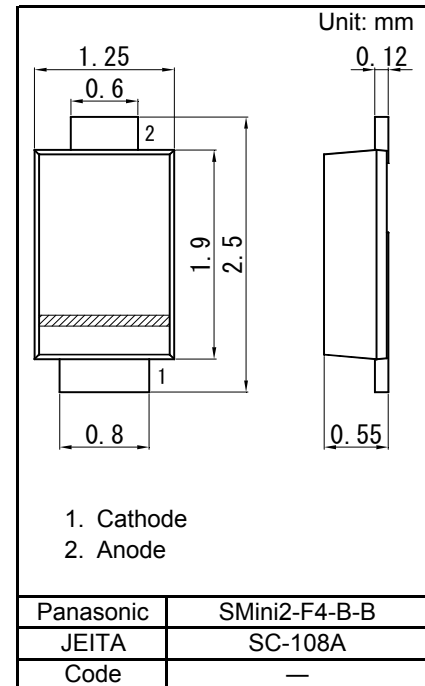
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

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

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

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

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



Internal Connection

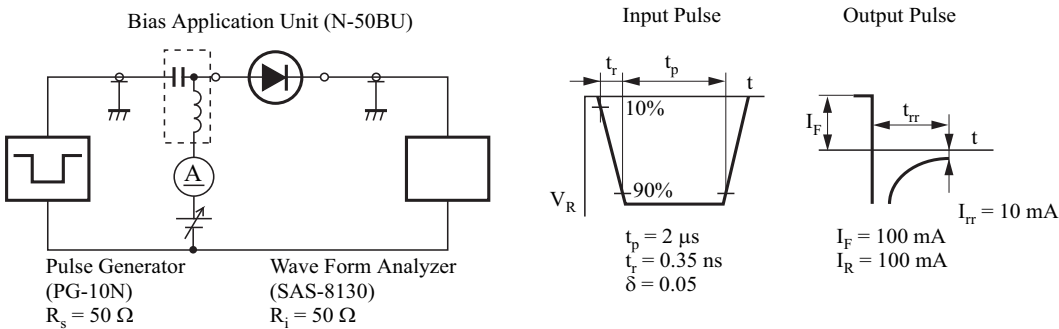




■ Electrical Characteristics Ta = 25 °C ± 3 °C

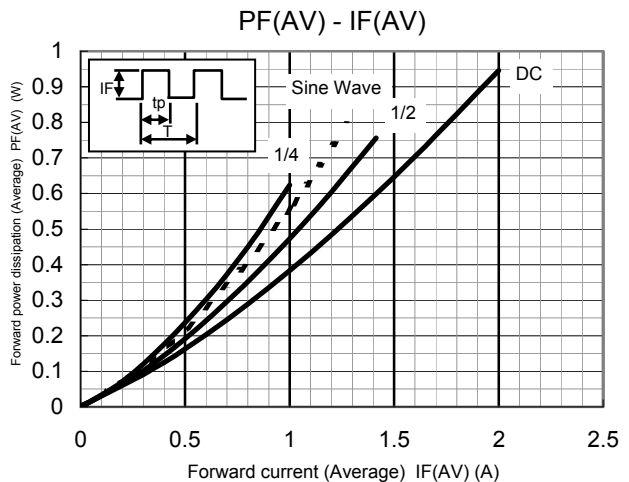
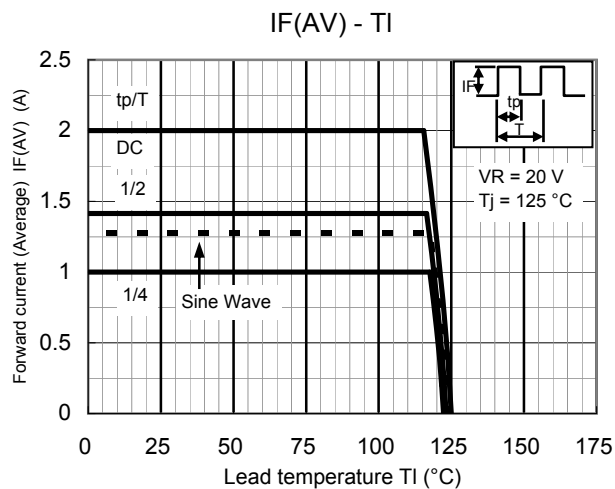
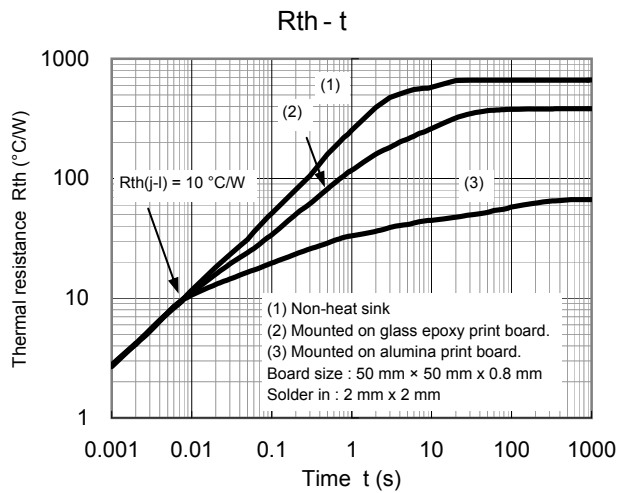
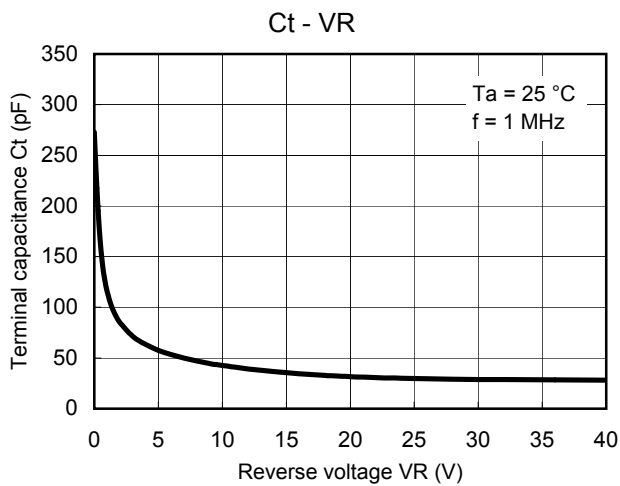
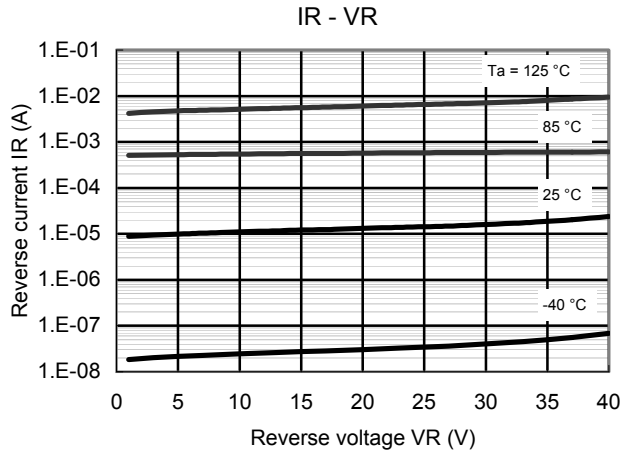
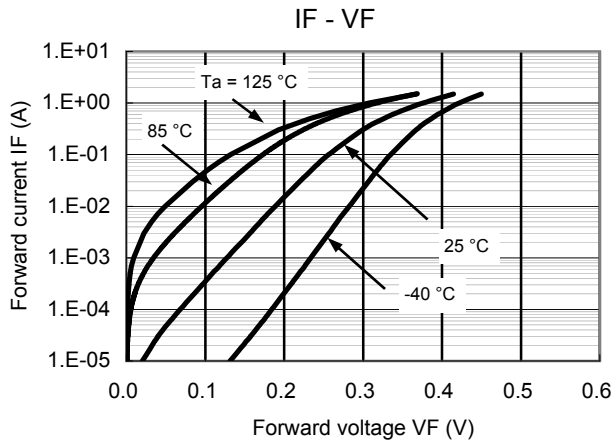
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 2.0 A		0.46	0.53	V
Reverse current	IR	VR = 40 V		25	150	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		43		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 10 mA		12		ns

- 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



Panasonic

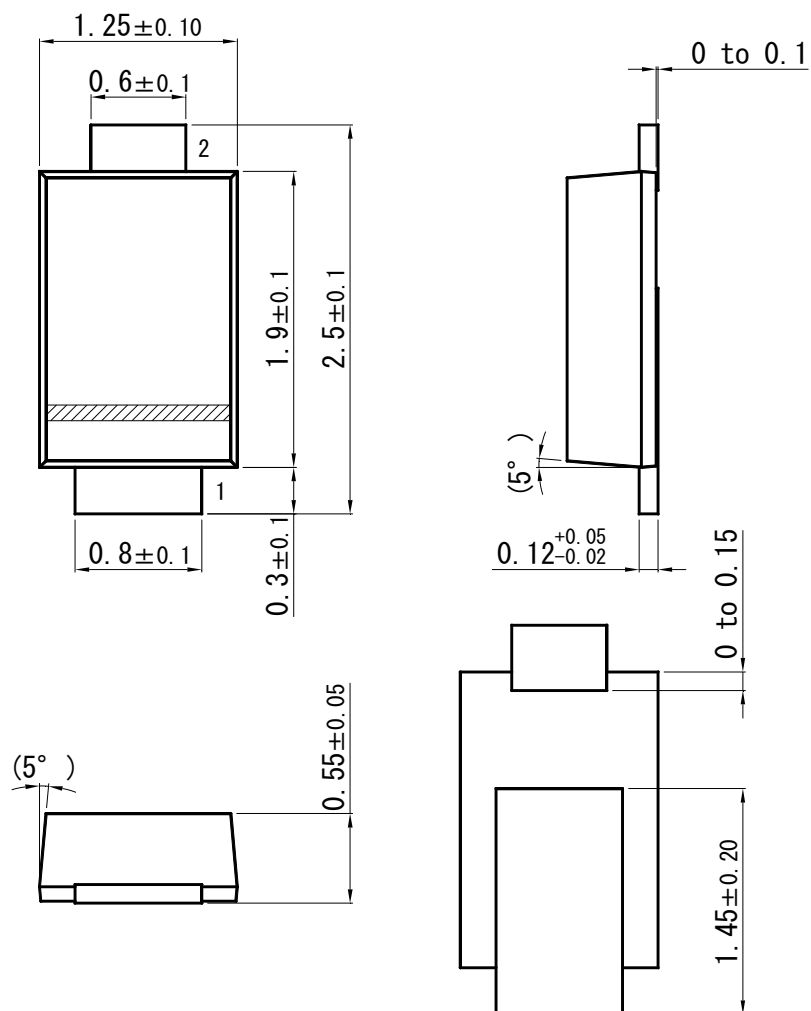
Technical Data (reference)



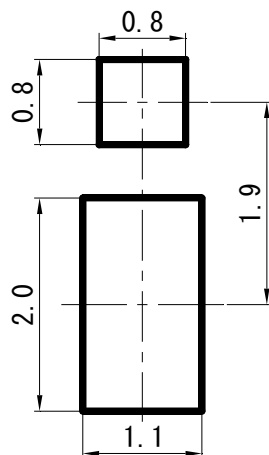
Panasonic

SMini2-F4-B-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com