



# DB2W31800L

Silicon epitaxial planar type

For rectification

■ Features

- Low forward voltage VF
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant  
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 3V

■ Packaging

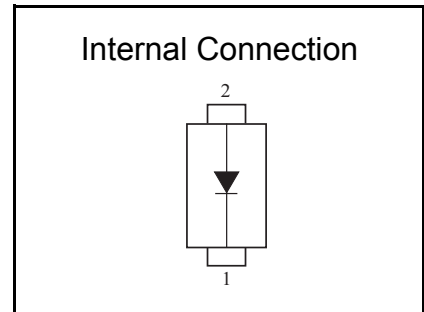
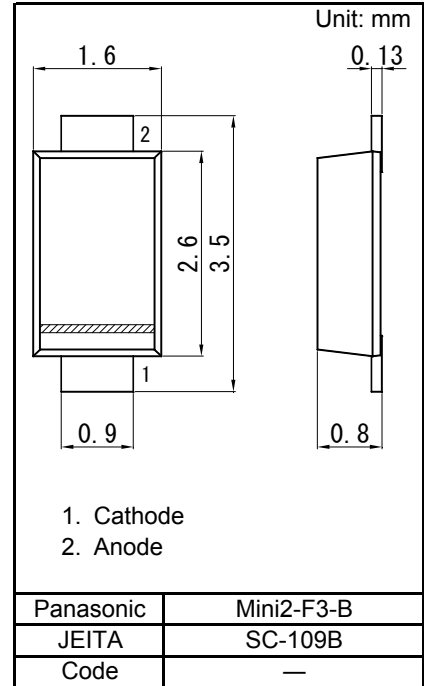
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage (direct current)	VR	30	V
Forward current (average) <sup>*1</sup>	IF(AV)	2	A
Non-repetitive peak forward surge current <sup>*2</sup>	IFSM	30	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)

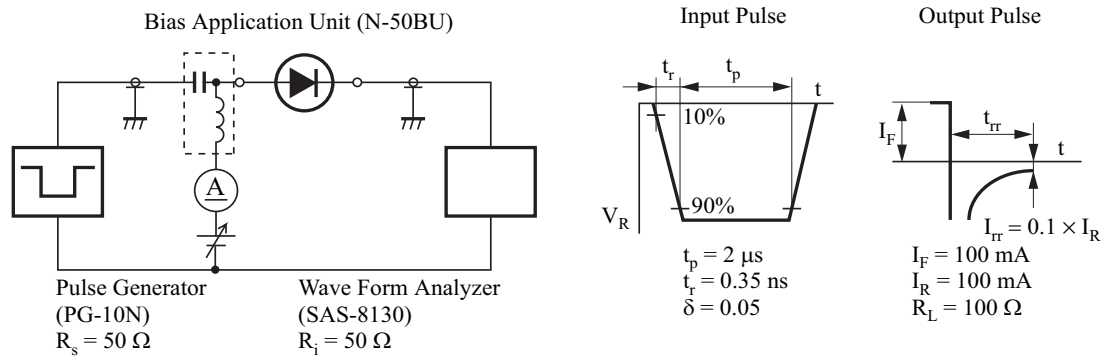




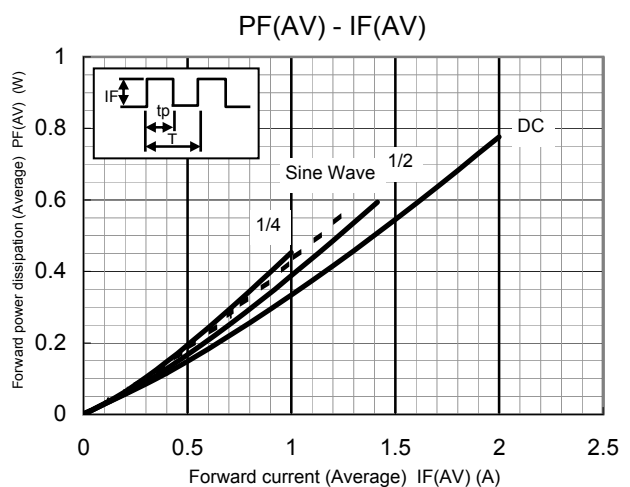
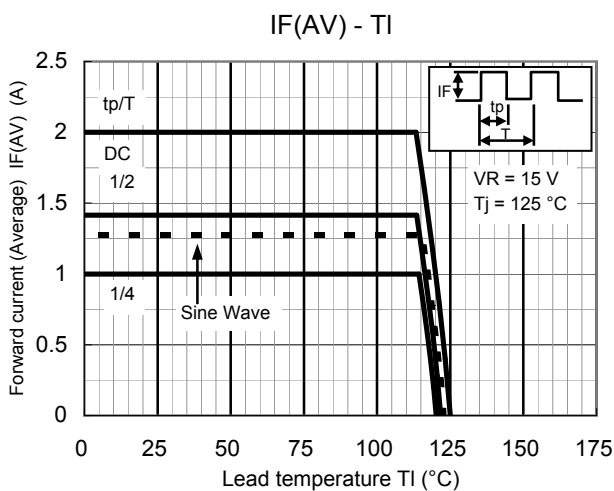
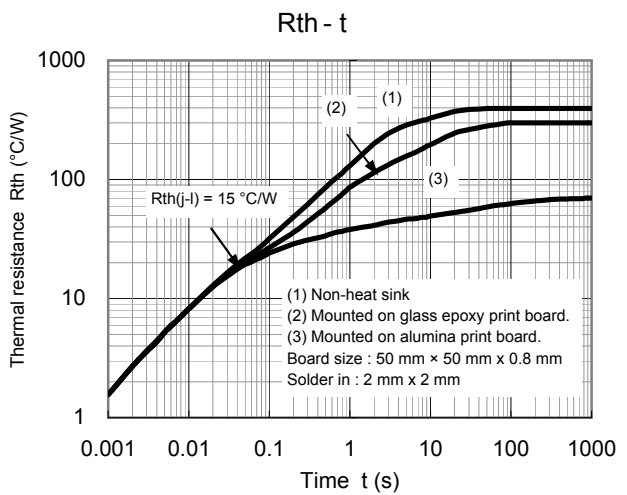
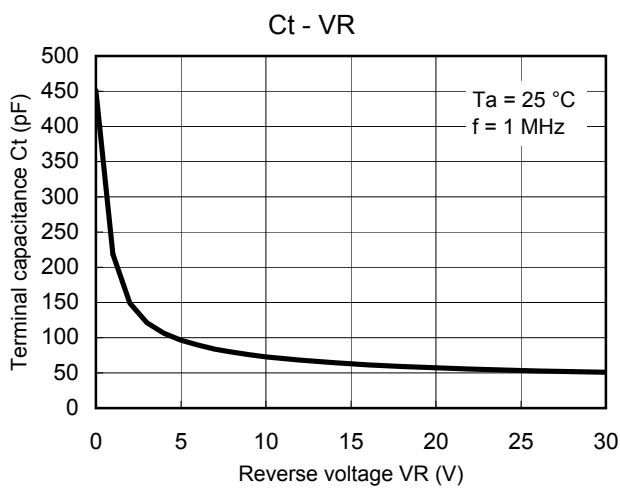
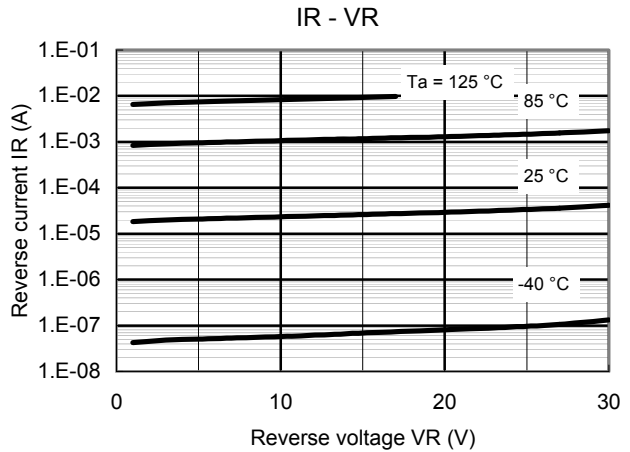
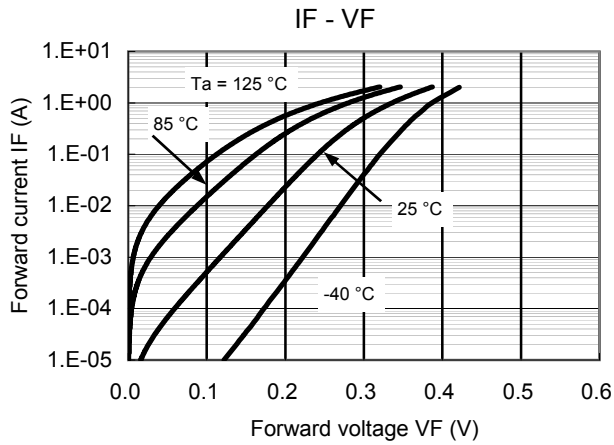
■ Electrical Characteristics  $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 2 A		0.38	0.43	V
Reverse current	IR	VR = 30 V		50	200	$\mu\text{A}$
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		70		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1 × IR, RL = 100 $\Omega$		23		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 )





### Mini2-F3-B

Unit: mm



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



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