Schottky Barrier Diode

DB2J31700L

Panasonic

DB2J31700L

Silicon epitaxial planar type

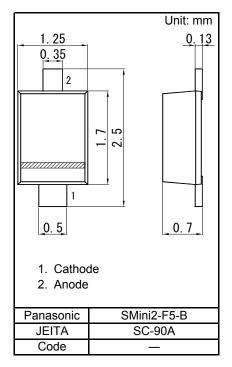
For rectification

■ Features

- · Low forward voltage VF
- Forward current (Average) IF(AV) = 1 A rectification is possible
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 3S

■ Packaging

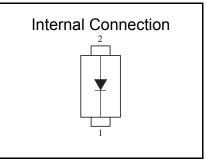
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)



■ Absolute Maximum Ratings Ta	1 = 25	o °C
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Parameter	Symbol	Rating	Unit		
Reverse voltage (direct current)	VR	30	V		
Forward current (average) *1	IF(AV)	1	Α		
Non-repetitive peak forward surge current *2	IFSM	3	Α		
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)



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

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

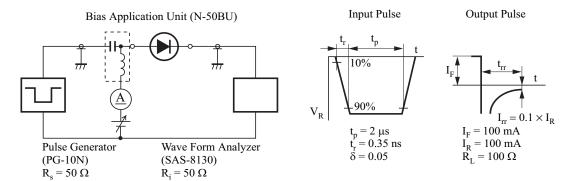
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF1	IF = 700 mA		0.41	0.48	V
	VF2	IF = 1A		0.46	0.52	V
Reverse current	IR	VR = 30 V		10	100	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		22		pF
Reverse recovery time *1	trr	IF = IR = 100 mA		7.8		ns
		Irr = $0.1 \times IR$, RL = 100Ω				

- 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

Established: 2009-09-08

Revised

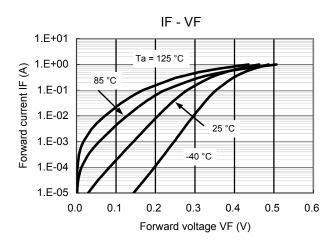
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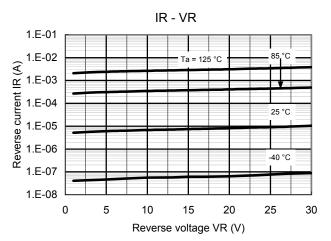


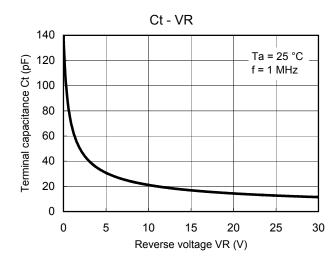
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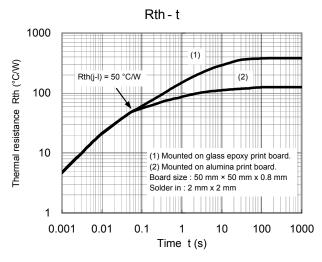
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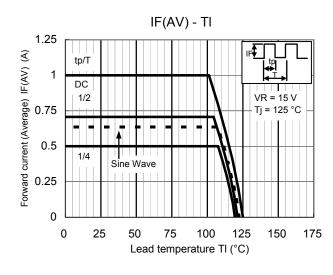
Technical Data (reference)

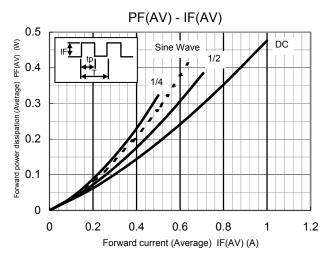












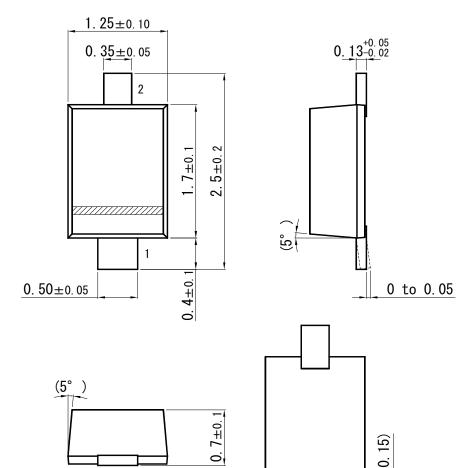
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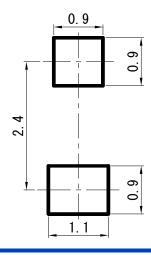
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SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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