Panasonic

DB2J20900L

Silicon epitaxial planar type

For high frequency rectification DB3X209K in SMini2 type package

■ Features

- · Low forward voltage VF
- · Short reverse recovery time trr
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: BE

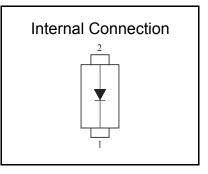
■ Packaging

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

■ Absolute Maximum Ratings Ta = 25	°C
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Parameter	Symbol	Rating	Unit			
Reverse voltage	VR	20	V			
Repetitive peak reverse voltage	VRRM	20	V			
Forward current (Average)	IF(AV)	500	mA			
Non-repetitive peak forward surge current *1	IFSM	3	Α			
Junction temperature	Tj	125	°C			
Operating ambient temperature	Topr	-40 to +85	°C			
Storage temperature	Tstg	-55 to +125	°C			
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Note: *1 50Hz sine wave 1 cycle (Non-repetitive peak current)



Established: 2010-04-05 Revised: 2013-12-10

Schottky Barrier Diode

DB2J20900L

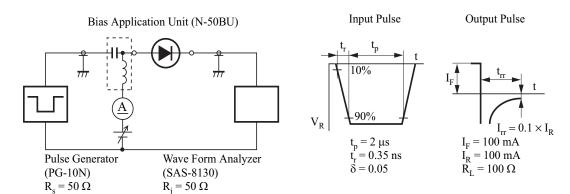
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■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Forward voltage	VF1	IF = 10 mA			0.3		
Forward voltage	VF2	IF = 500 mA			0.5	V	
Reverse current	IR	VR = 10 V			30	μΑ	
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		7		pF	
Reverse recovery time *1	trr	IF = IR = 100 mA,		2.4		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. Absolute frequency of Input and output is 400 MHz.
- 4. *1 : trr measurement circuit

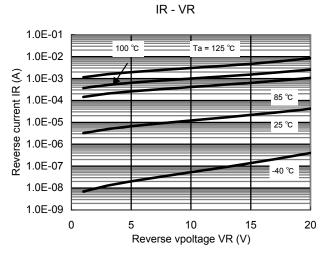


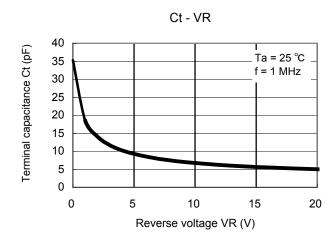
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Schottky Barrier Diode DB2J20900L

Technical Data (reference)

IF - VF 1.0E+00 1.0E-01 Fpward current IF (A) 1.0E-02 1.0E-03 1.0E-04 1.0E-05 0.1 0.6 0.0 0.2 0.3 0.4 0.5 Forward voitage VF (V)





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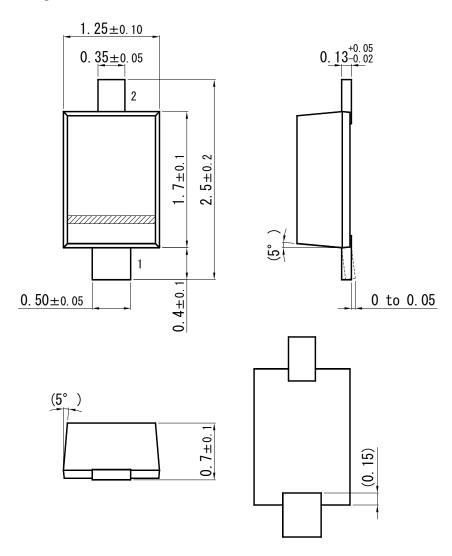
Schottky Barrier Diode

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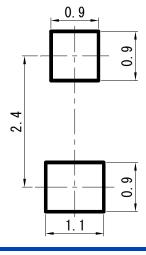
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SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



Established: 2010-04-05 Revised: 2013-12-10

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