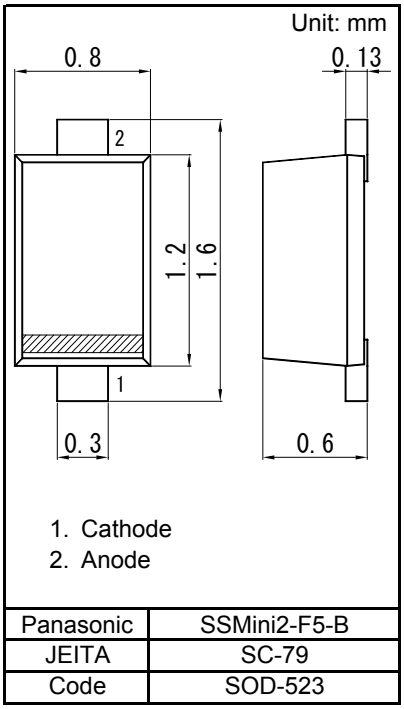
Panasonic

DB2S20500L

Silicon epitaxial planar type

For high frequency rectification



1. Cathode
2. Anode

Panasonic	SSMini2-F5-B
JEITA	SC-79
Code	SOD-523

■ 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: BA

■ Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	20	V
Repetitive peak reverse voltage	VRRM	15	V
Forward current (Average)	IF(AV)	200	mA
Peak forward current	IFM	300	mA
Non-repetitive peak forward surge current *1	IFSM	1	A
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +125	°C

Note: *1: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

Internal Connection

Established : 2010-03-12
Revised : 2013-12-12

Schottky Barrier Diode

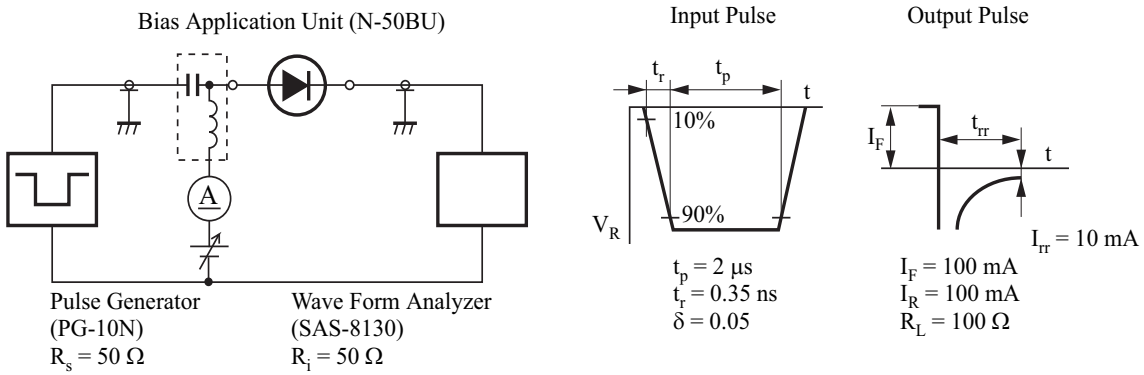
Panasonic

DB2S20500L

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 200 mA			0.39	V
Reverse current	IR	VR = 6 V			50	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		6.1		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 10 mA RL = 100 Ω		2.2		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. Absolute frequency of input and output is 250 MHz.
4. *1: trr test circuit



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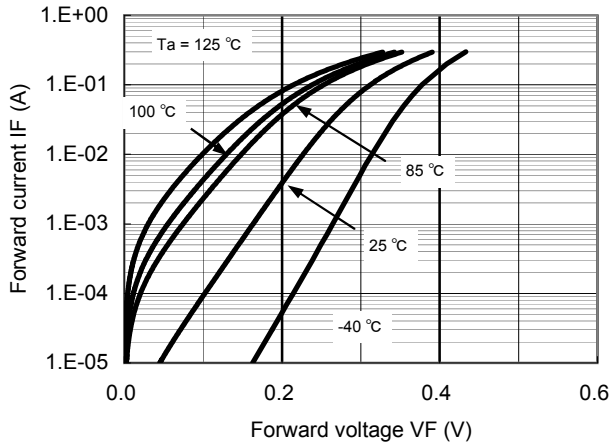
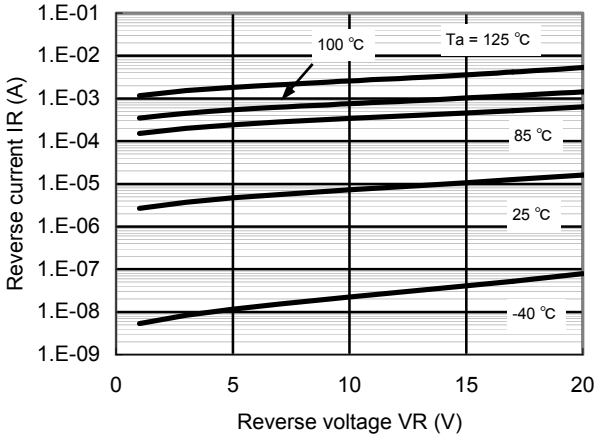
Technical Data (reference)

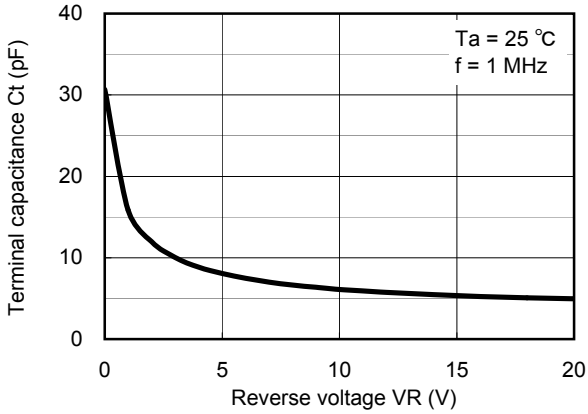
IF - VF



IR - VR



Ct - VR



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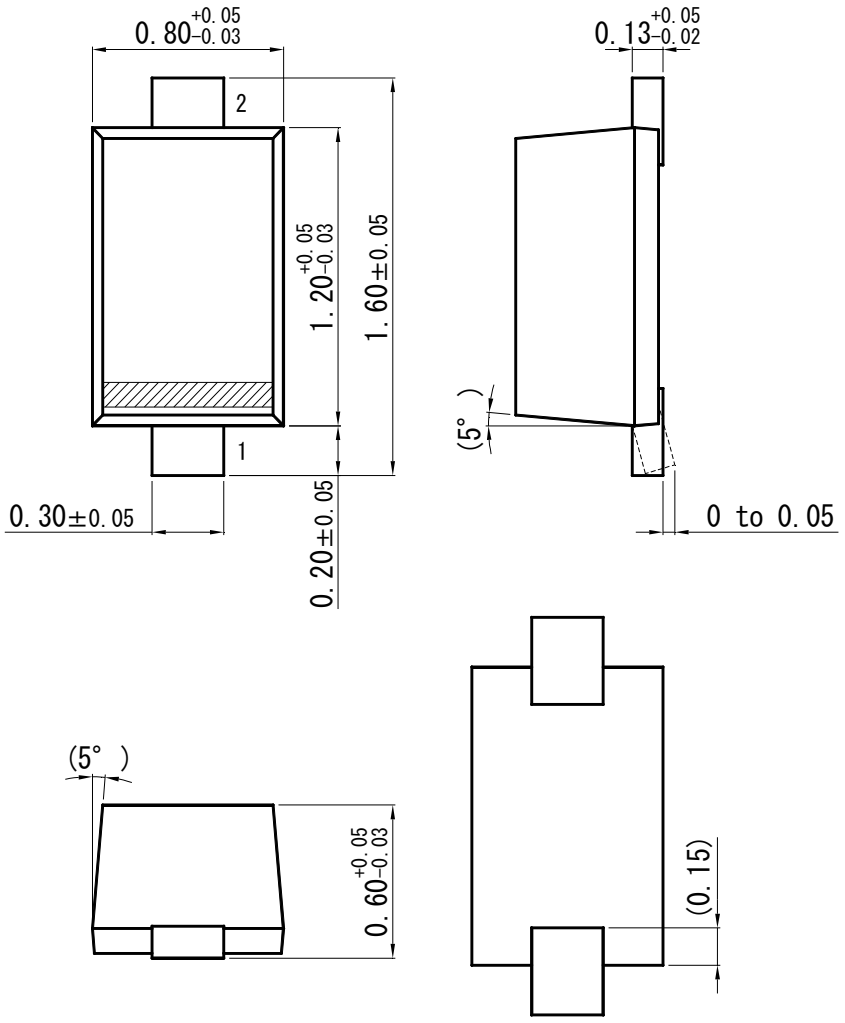
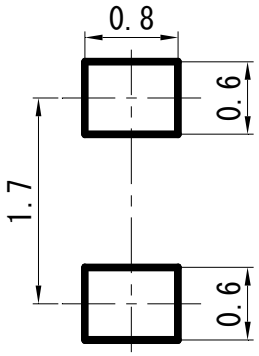
SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



Established : 2010-03-12
Revised : 2013-12-12

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