

DB2S20500L
Silicon epitaxial planar type

For high frequency rectification

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

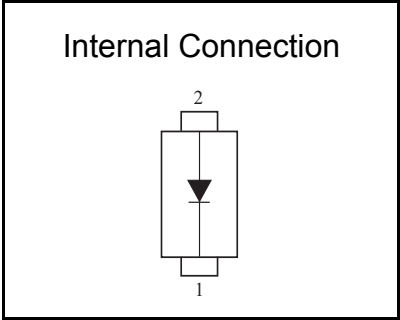
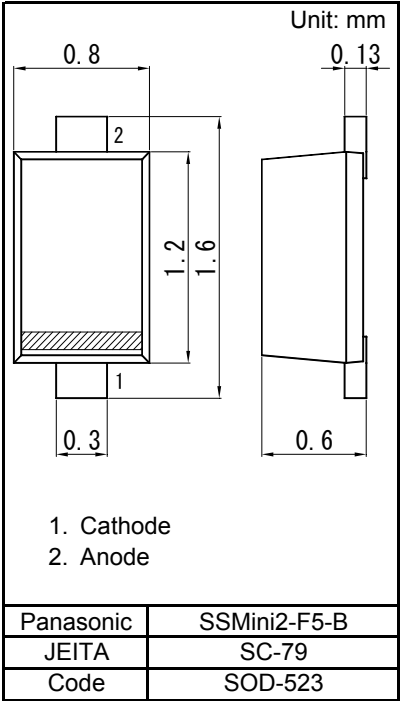
■ Marking Symbol: BA

■ 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

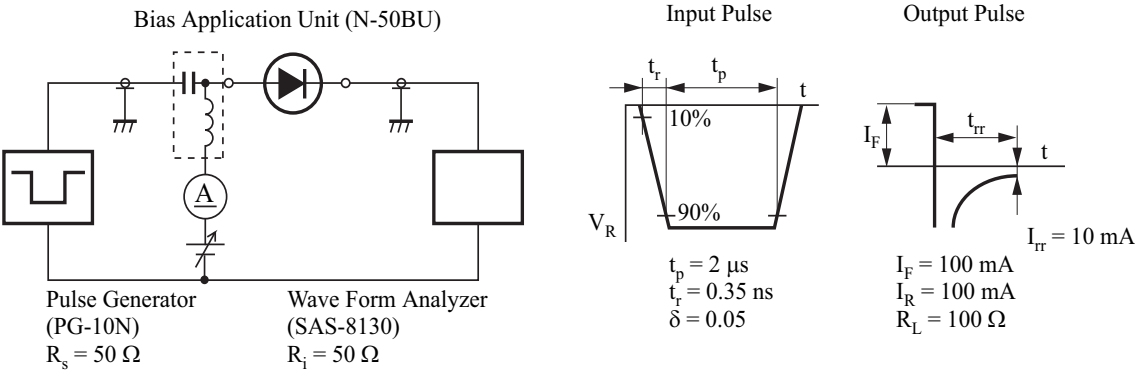
Note: *1: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)



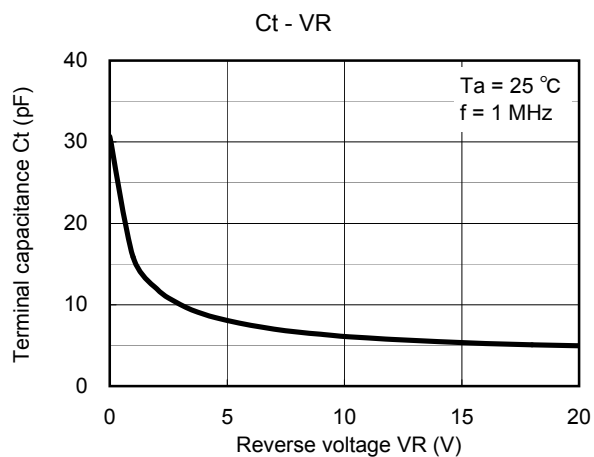
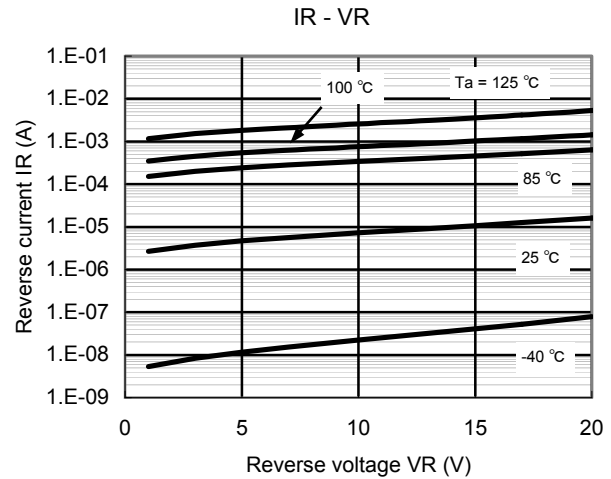
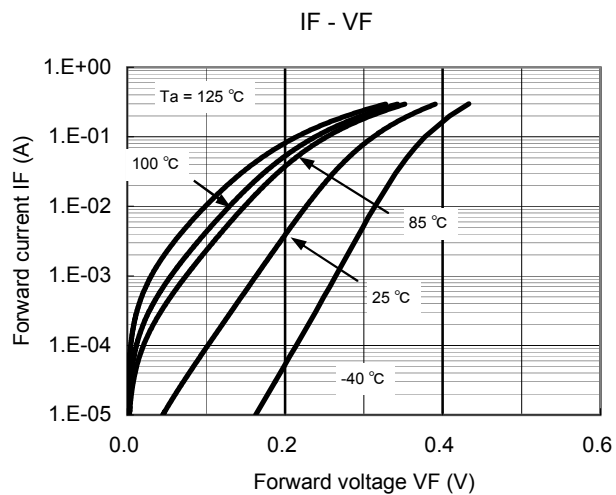
Electrical Characteristics Ta = 25 °C ± 3 °C

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



Technical Data (reference)

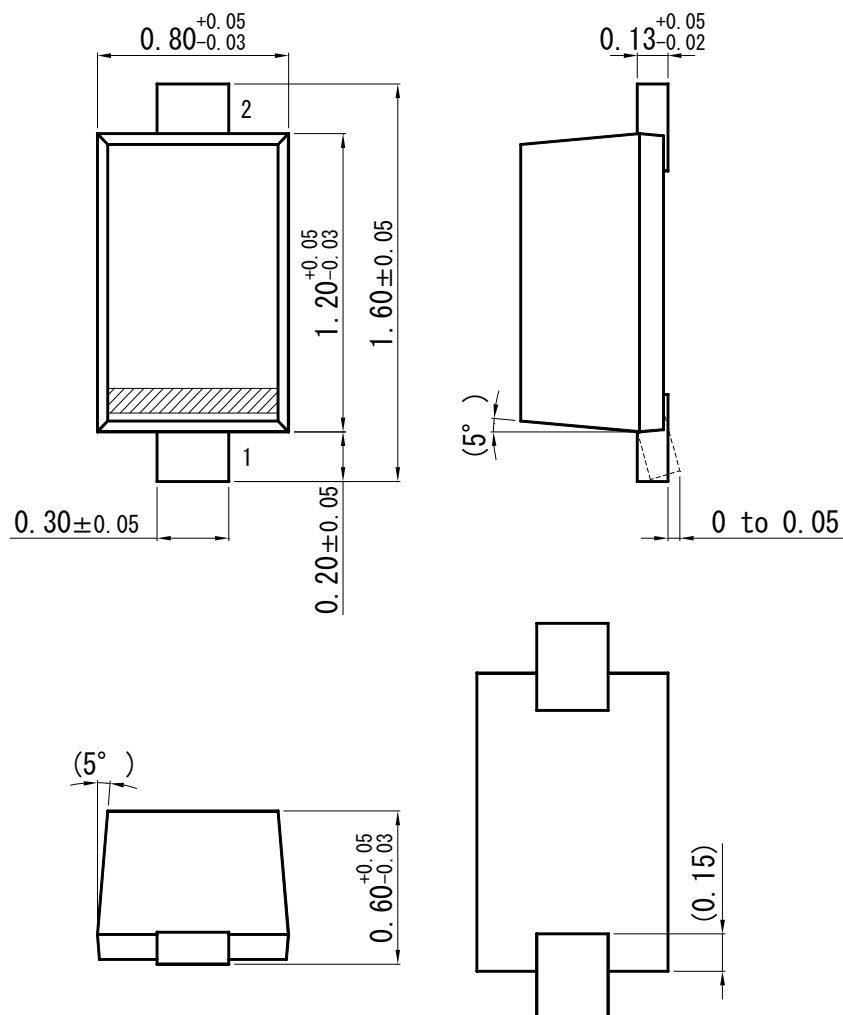


Panasonic

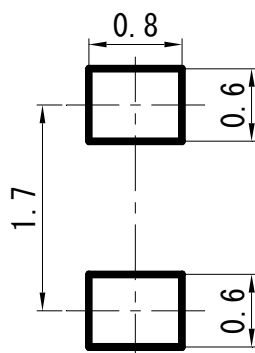
Schottky Barrier Diode
DB2S20500L

SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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- (6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.
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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