



# DB2S40600L

Silicon epitaxial planar type

For high speed switching

DB2J406 in SSMini2 type package

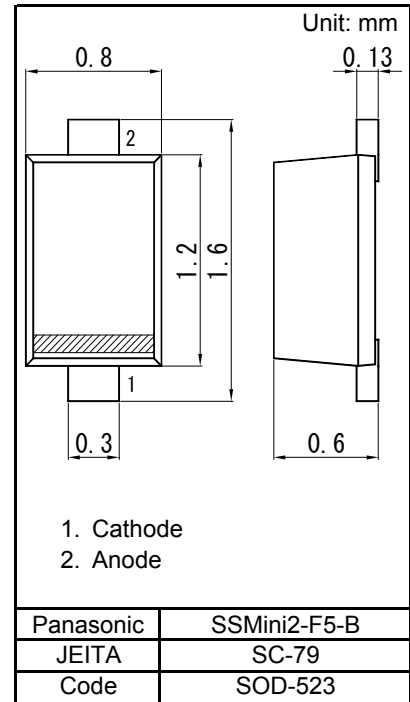
■ Features

- Small reverse current IR
- Short reverse recovery time trr
- Halogen-free / RoHS compliant  
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 4Q

■ Packaging

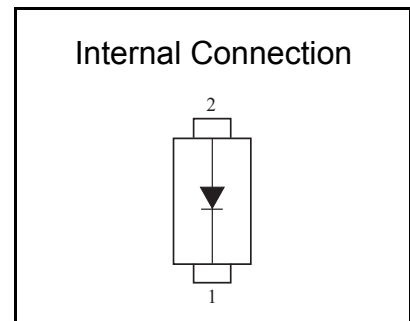
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)



■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Repetitive peak reverse voltage	VRRM	40	V
Average forward current	IF (AV)	100	mA
Peak forward current	IFM	300	mA
Non-repetitive peak forward surge current <sup>*1</sup>	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. \*1 50Hz sine wave 1 cycle (Non-repetitive peak current)



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

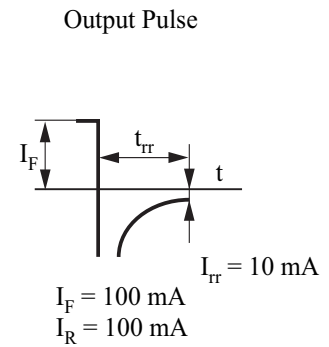
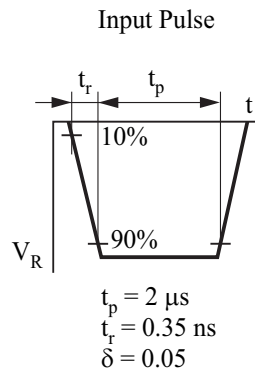
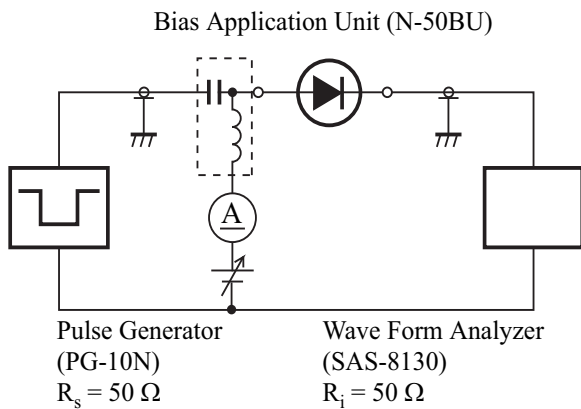
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 100 mA			0.6	V
Reverse current	IR	VR = 40 V			5	$\mu\text{A}$
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		2.2		pF
Reverse recovery time <sup>*1</sup>	trr	IF = IR = 100 mA, I <sub>rr</sub> = 10 mA		0.9		ns

Note: 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

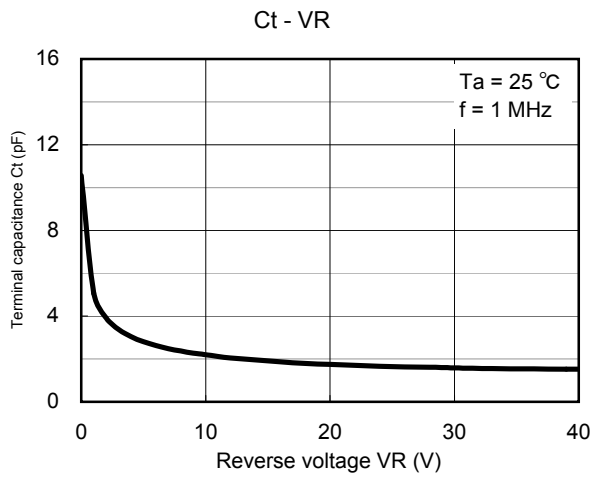
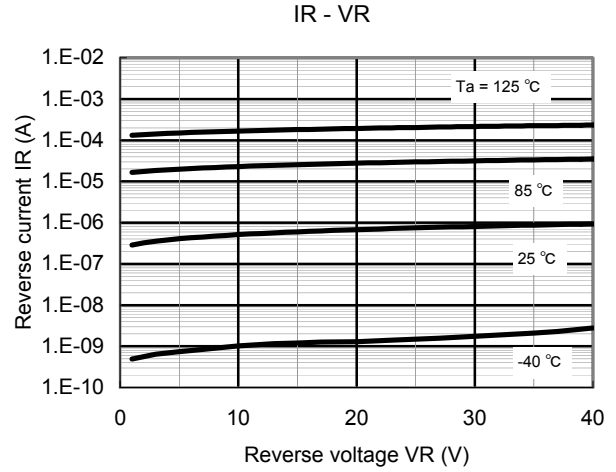
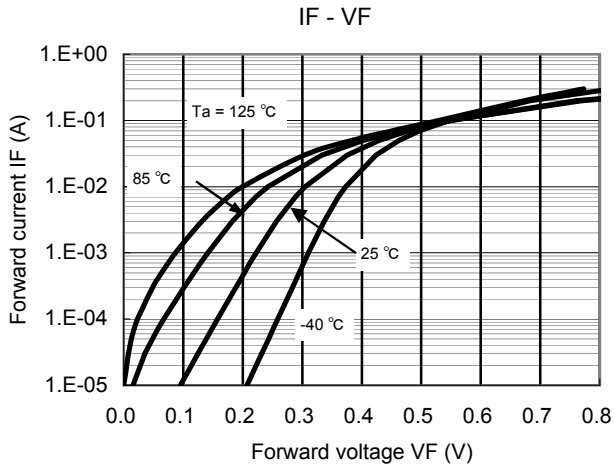
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of Input and output is 250 MHz

4. \*1 trr measurement circuit



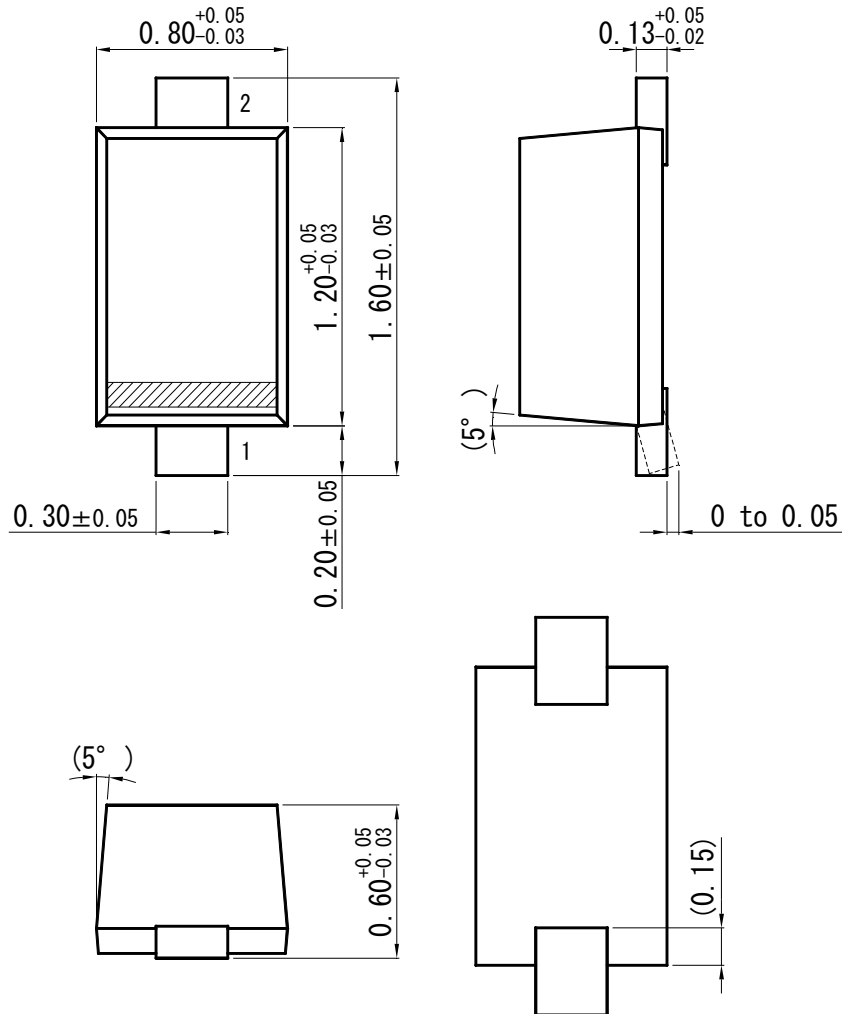
Technical Data ( reference )



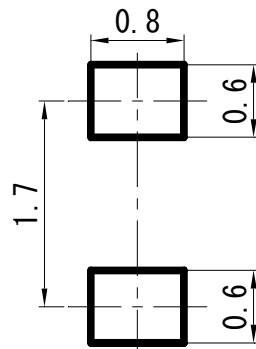


### SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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