Panasonic

DB2S40600L

Silicon epitaxial planar type

For high speed switching
DB2J406 in SSMini2 type package

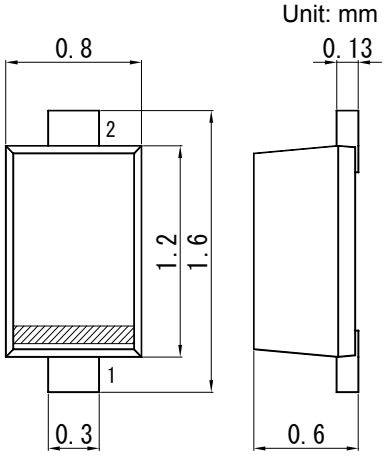
■ Features

- 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)



1. Cathode
2. Anode

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

■ 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 *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. *1 50Hz sine wave 1 cycle (Non-repetitive peak current)

Internal Connection

Established : 2011-04-22
Revised : 2013-12-13

Schottky Barrier Diode

Panasonic

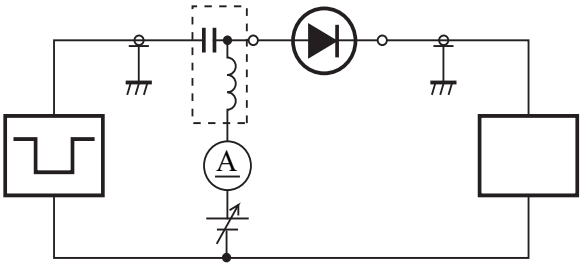
DB2S40600L

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 100 mA			0.6	V
Reverse current	IR	VR = 40 V			5	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		2.2		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 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

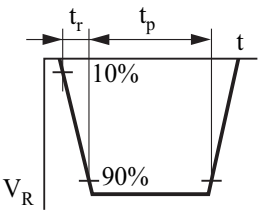
Bias Application Unit (N-50BU)



Pulse Generator
(PG-10N)
R_s = 50 Ω

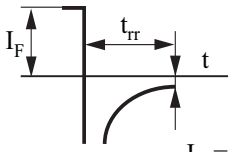
Wave Form Analyzer
(SAS-8130)
R_i = 50 Ω

Input Pulse



t_p = 2 μs
t_r = 0.35 ns
δ = 0.05

Output Pulse

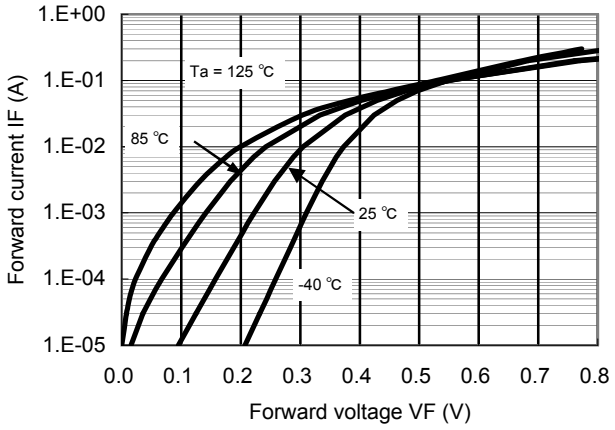


I_{rr} = 10 mA
I_F = 100 mA
I_R = 100 mA

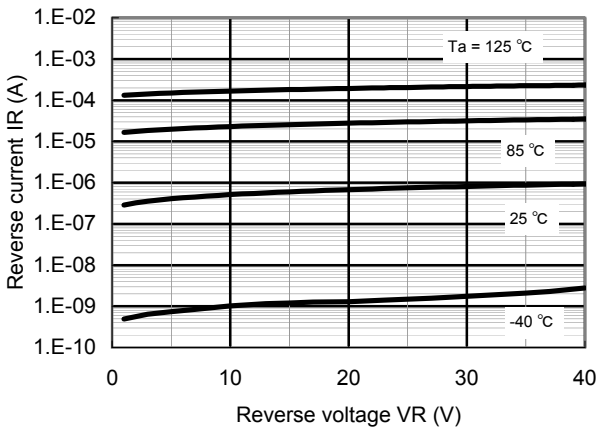
Established : 2011-04-22
Revised : 2013-12-13

Technical Data (reference)

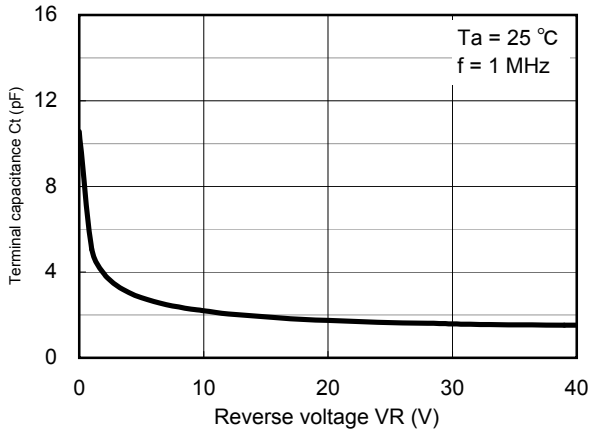
IF - VF



IR - VR



Ct - VR



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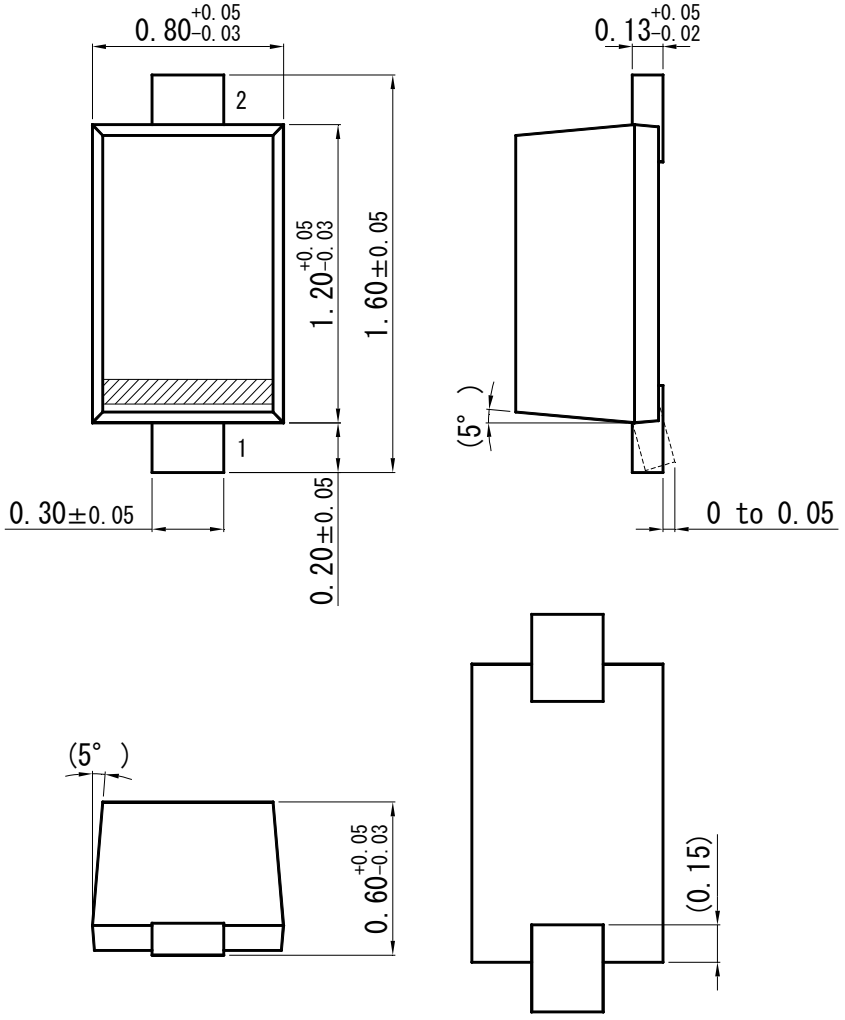
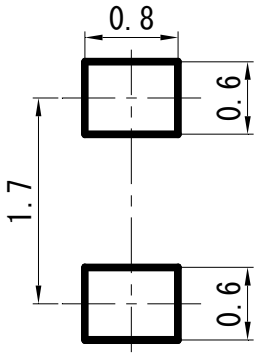
SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



Established : 2011-04-22
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