

DB2S310

Silicon epitaxial planar type

For high speed switching circuits
DB2J310 in SSMini2 type package

■ Features

- Low forward voltage V_F
- Short reverse recovery time t_{rr}
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: B7

■ Packaging

DB2S31000L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|--|-------------|-------------|------------------|
| Reverse voltage | V_R | 30 | V |
| Repetitive peak reverse voltage | V_{RRM} | 30 | V |
| Forward current (Average) | $I_{F(AV)}$ | 200 | mA |
| Peak forward current | I_{FM} | 300 | mA |
| Non-repetitive peak forward surge current *1 | I_{FSM} | 1 | A |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Operating ambient temperature | T_{opr} | -40 to +85 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

Note) *1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

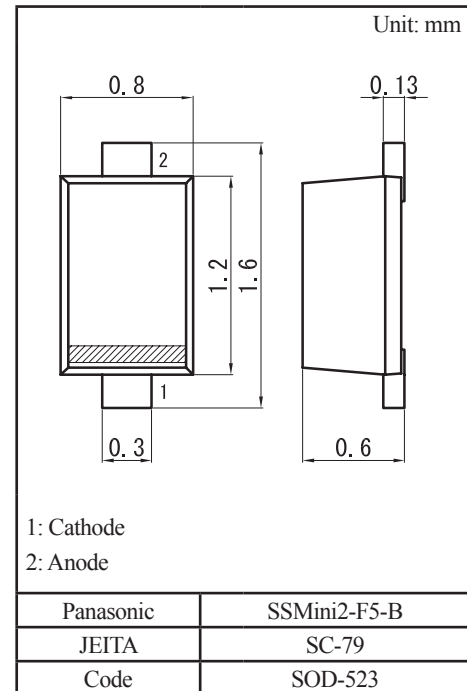
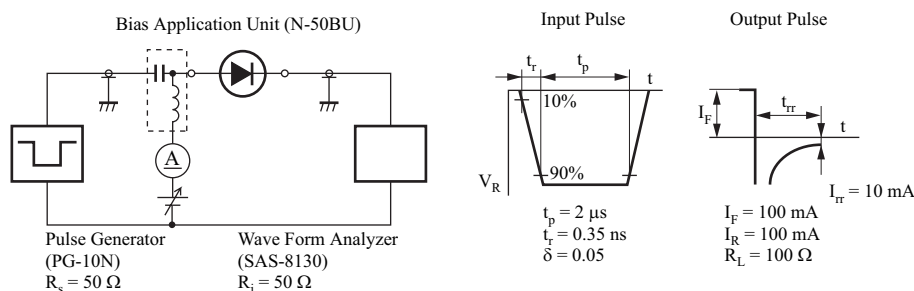
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

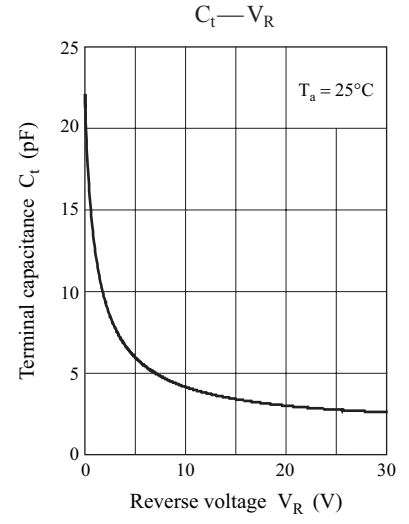
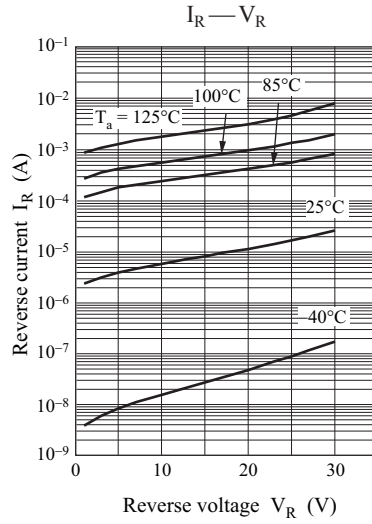
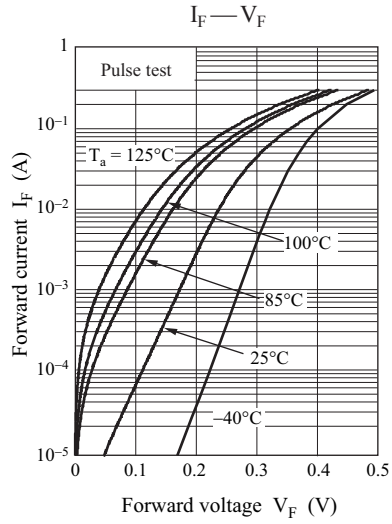
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|--------------------------|----------|--|-----|-----|------|---------------|
| Forward voltage | V_F | $I_F = 200 \text{ mA}$ | | | 0.47 | V |
| Reverse current | I_{R1} | $V_R = 10 \text{ V}$ | | | 20 | μA |
| | I_{R2} | $V_R = 30 \text{ V}$ | | | 200 | |
| Terminal capacitance | C_t | $V_R = 10 \text{ V}, f = 1 \text{ MHz}$ | | 4.5 | | pF |
| Reverse recovery time *1 | t_{rr} | $I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$ | | 1.6 | | 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

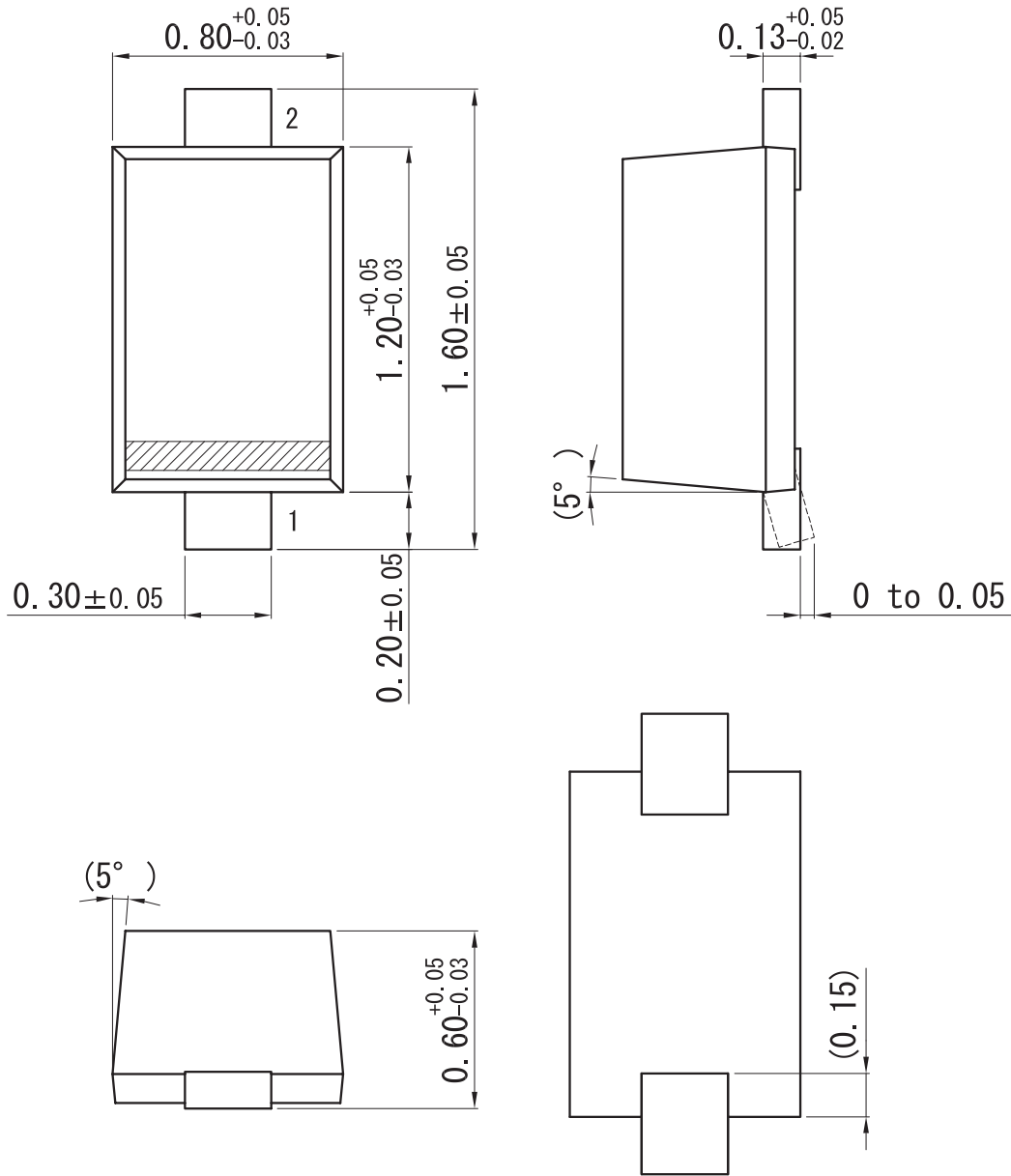
*1: t_{rr} measurement circuit



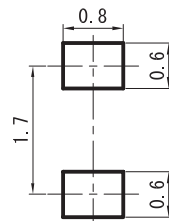


SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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