

DA3J107K

Silicon epitaxial planar type

For high speed switching circuits
DA3X107K in SMini3 type package

■ Features

- High reverse voltage V_R
- Small reverse current I_R
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

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

| Parameter | Symbol | Rating | Unit |
|---|-------------|-------------|------------------|
| Reverse voltage | V_R | 300 | V |
| Repetitive peak reverse voltage | V_{RRM} | 300 | V |
| Forward current (Average) | $I_{F(AV)}$ | 100 | mA |
| Repetitive peak forward current | I_{FRM} | 225 | mA |
| Non-repetitive peak forward surge current * | I_{FSM} | 500 | mA |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

Note) *: 1 t = 1 s

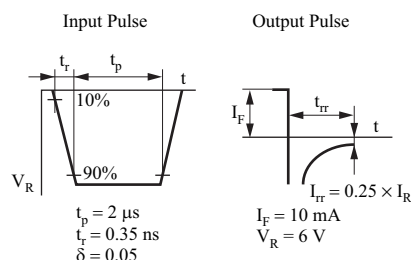
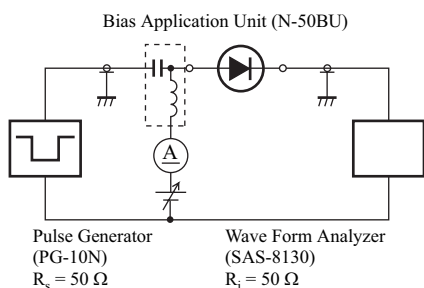
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|-----|-----|---------------|
| Forward voltage | V_F | $I_F = 100 \text{ mA}$ | | | 1.2 | V |
| Reverse current | I_R | $V_R = 300 \text{ V}$ | | | 1.0 | μA |
| Terminal capacitance | C_t | $V_R = 6 \text{ V}, f = 1 \text{ MHz}$ | | | 3.0 | pF |
| Reverse recovery time * | t_{rr} | $I_F = 10 \text{ mA}, V_R = 6 \text{ V}, I_{rr} = 0.25 \times I_R$ | | | 60 | ns |

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

2. Absolute frequency of input and output is 20 MHz

3. *: t_{rr} measurement circuit

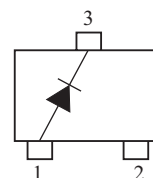


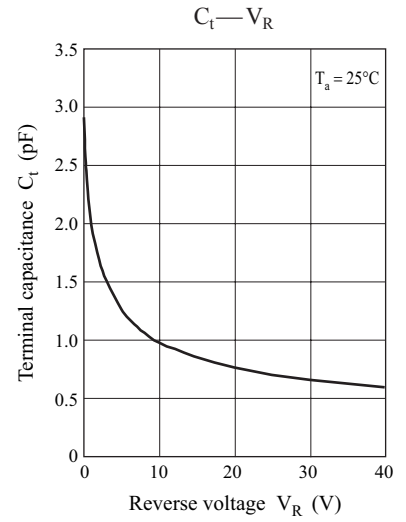
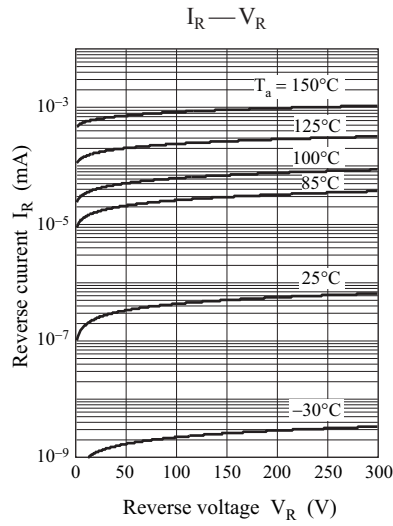
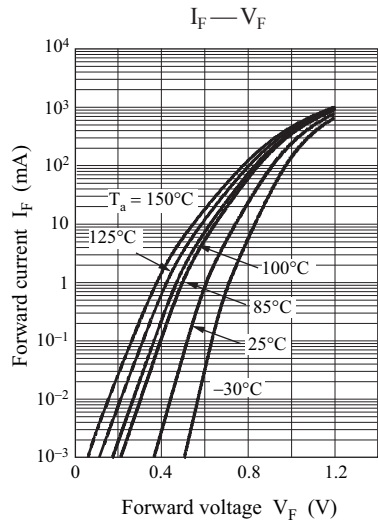
■ Package

- Code
SMini3-F2-B
- Pin Name
1: Anode
2: N.C.
3: Cathode

■ Marking Symbol: 25

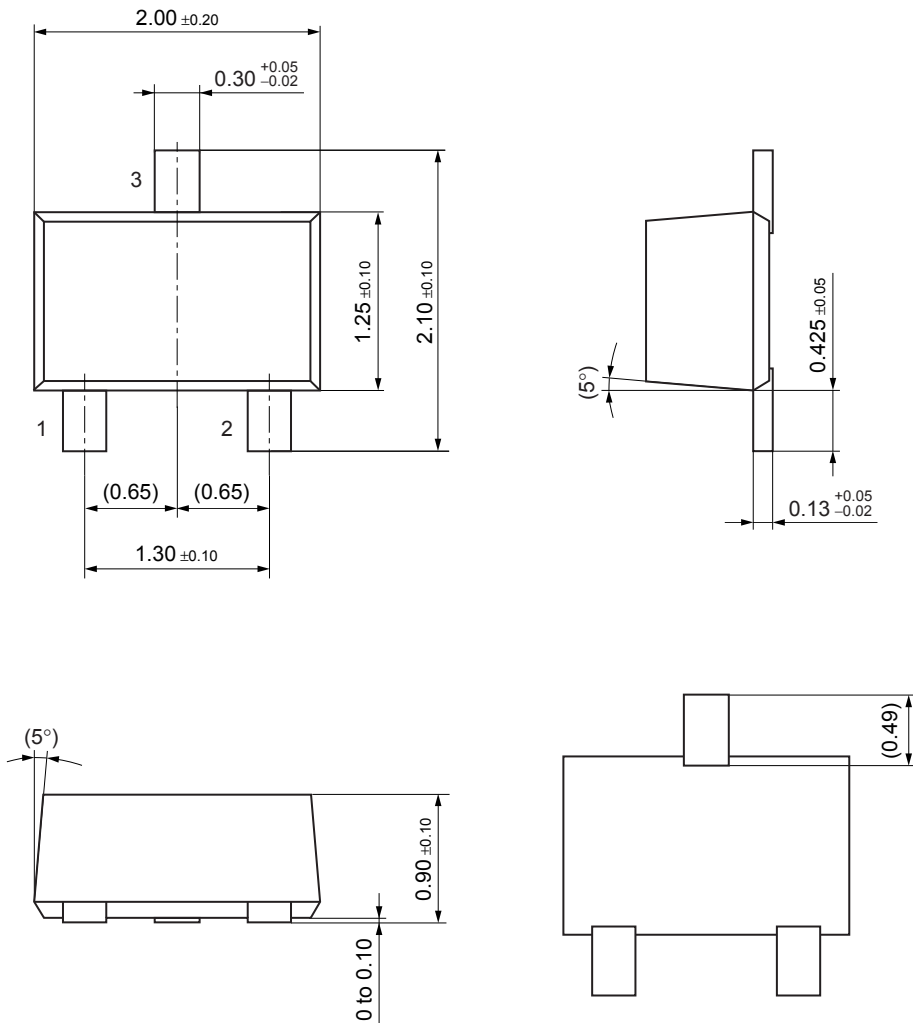
■ Internal Connection





SMini3-F2-B

Unit: mm



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