

# DA3S102D

## Silicon epitaxial planar type

For high speed switching circuits  
 2 elements anode-common type  
 DA3J102D in SSMINI3 type package

### ■ Features

- Short reverse recovery time  $t_{rr}$
- Low terminal capacitance  $C_t$
- 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                             | $V_R$     | 80          | V                |
| Maximum peak reverse voltage                | $V_{RM}$  | 80          | V                |
| Forward current                             | Single    | 100         | mA               |
|   | Double    | 150         | mA               |
| Peak forward current                        | Single    | 225         | mA               |
|   | Double    | 340         | mA               |
| Non-repetitive peak forward surge current * | Single    | 500         | mA               |
|   | Double    | 750         | mA               |
| Junction temperature                        | $T_j$     | 150         | $^\circ\text{C}$ |
| Storage temperature                         | $T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

Note) \*: 1 t = 1 s

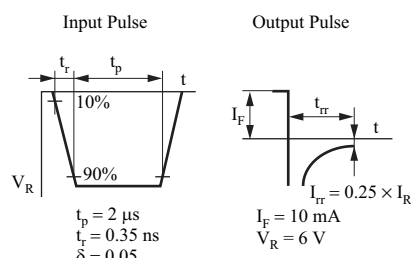
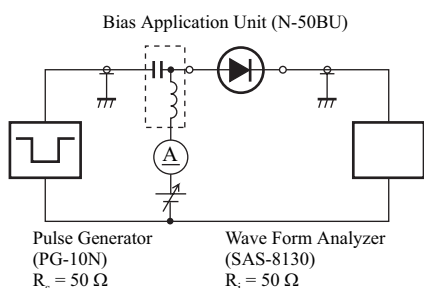
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter               | Symbol   | Conditions   | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|-----|-----|------|
| Forward voltage         | $V_F$    | $I_F = 100 \text{ mA}$   |     |     | 1.2 | V    |
| Reverse voltage         | $V_R$    | $I_R = 100 \mu\text{A}$  | 80  |     |     | V    |
| Reverse current         | $I_R$    | $V_R = 80 \text{ V}$   |     |     | 100 | nA   |
| Terminal capacitance    | $C_t$    | $V_R = 0 \text{ V}, f = 1 \text{ MHz}$                             |     |     | 15  | pF   |
| Reverse recovery time * | $t_{rr}$ | $I_F = 10 \text{ mA}, V_R = 6 \text{ V}, I_{tr} = 0.25 \times I_R$ |     |     | 10  | 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 100 MHz

3. \*:  $t_{rr}$  measurement circuit

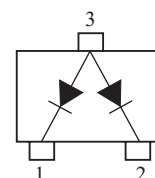


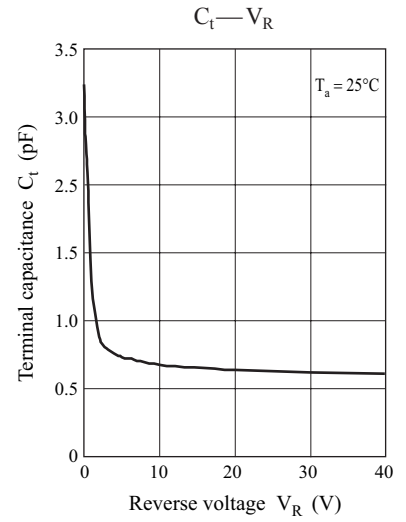
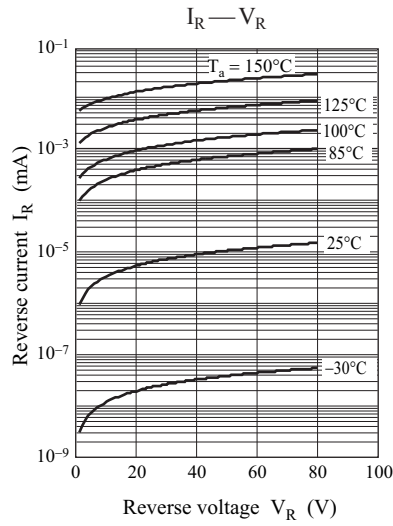
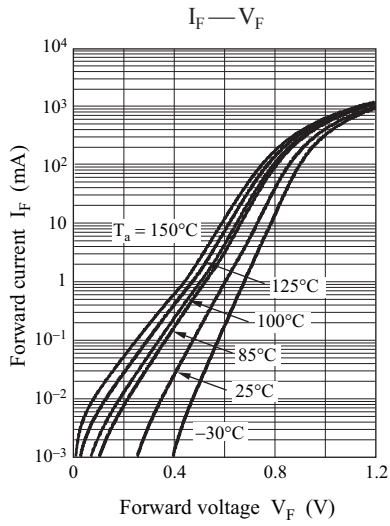
### ■ Package

- Code  
SSMini3-F3-B
- Pin Name  
1: Cathode-1      3: Anode-1  
2: Cathode-2      Anode-2

### ■ Marking Symbol: 23

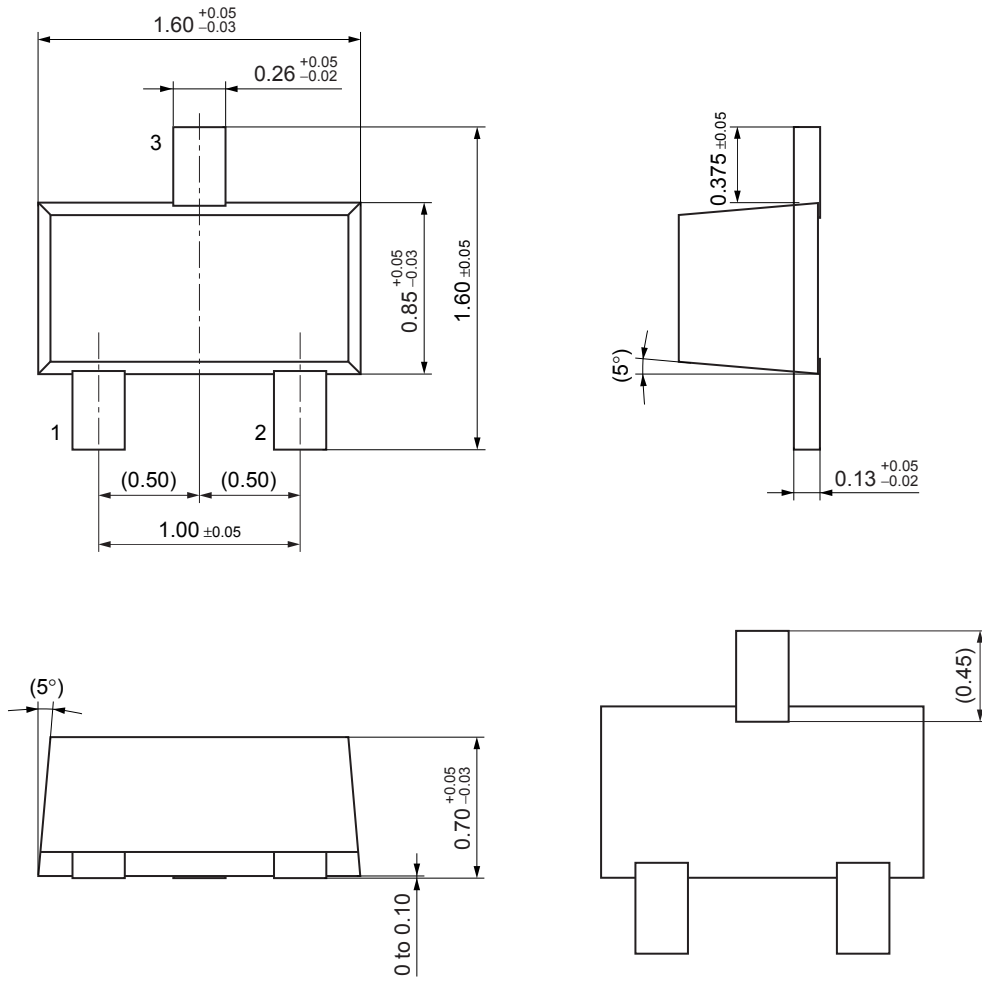
### ■ Internal Connection





SSMini3-F3-B

Unit: mm



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