

# DB22304

## Silicon epitaxial planar type

For rectification

### ■ Features

- Small reverse current  $I_R$
- Forward current (Average)  $I_{F(AV)} = 1$  A rectification is possible
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

### ■ Packaging

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

### ■ Package

- Code  
Mini2-F4-B
- Pin Name  
1: Cathode  
2: Anode

### ■ Marking Symbol: B4

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

| Parameter                                    | Symbol      | Rating      | Unit             |
|--|-------------|-------------|------------------|
| Reverse voltage                              | $V_R$       | 30          | V                |
| Maximum peak reverse voltage                 | $V_{RM}$    | 30          | V                |
| Forward current (Average) *1                 | $I_{F(AV)}$ | 1.0         | A                |
| Non-repetitive peak forward surge current *2 | $I_{FSM}$   | 30          | A                |
| Junction temperature                         | $T_j$       | 125         | $^\circ\text{C}$ |
| Storage temperature                          | $T_{stg}$   | -55 to +125 | $^\circ\text{C}$ |

Note) \*1:  $T_1 = 60^\circ\text{C}$

\*2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

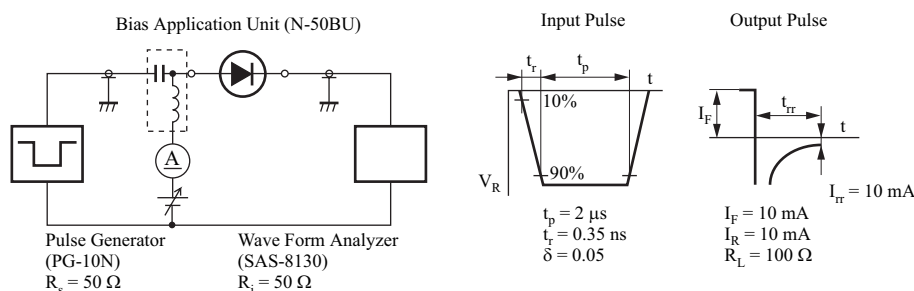
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

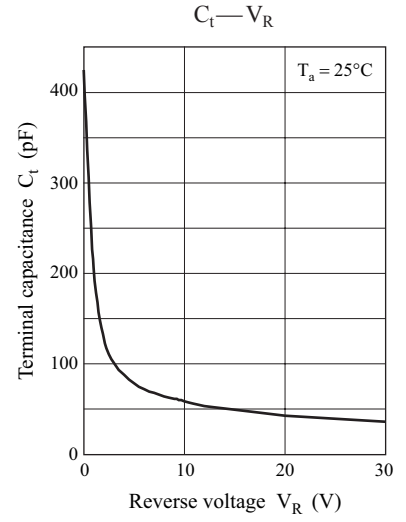
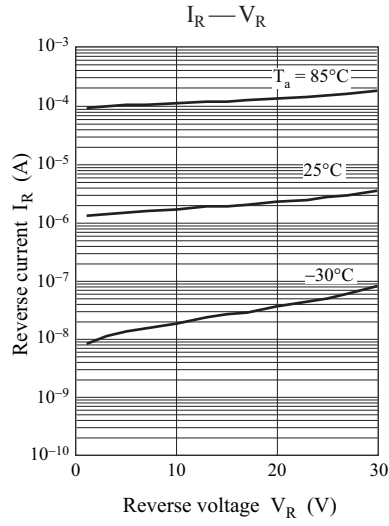
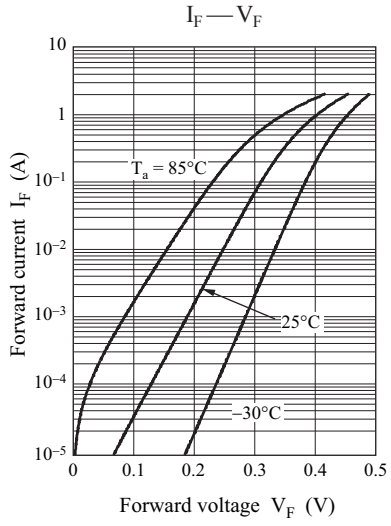
| Parameter               | Symbol   | Conditions   | Min | Typ | Max  | Unit          |
|-------------------------|----------|--|-----|-----|------|---------------|
| Forward voltage         | $V_{F1}$ | $I_F = 0.5$ A  |     |     | 0.46 | V             |
|                         | $V_{F2}$ | $I_F = 1.0$ A  |     |     | 0.53 |               |
| Reverse current         | $I_R$    | $V_R = 30$ V   |     |     | 30   | $\mu\text{A}$ |
| Terminal capacitance    | $C_t$    | $V_R = 10$ V, $f = 1$ MHz                                  |     | 59  |      | pF            |
| Reverse recovery time * | $t_{rr}$ | $I_F = I_R = 100$ mA, $I_{rr} = 10$ mA, $R_L = 100 \Omega$ |     | 20  |      | 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.

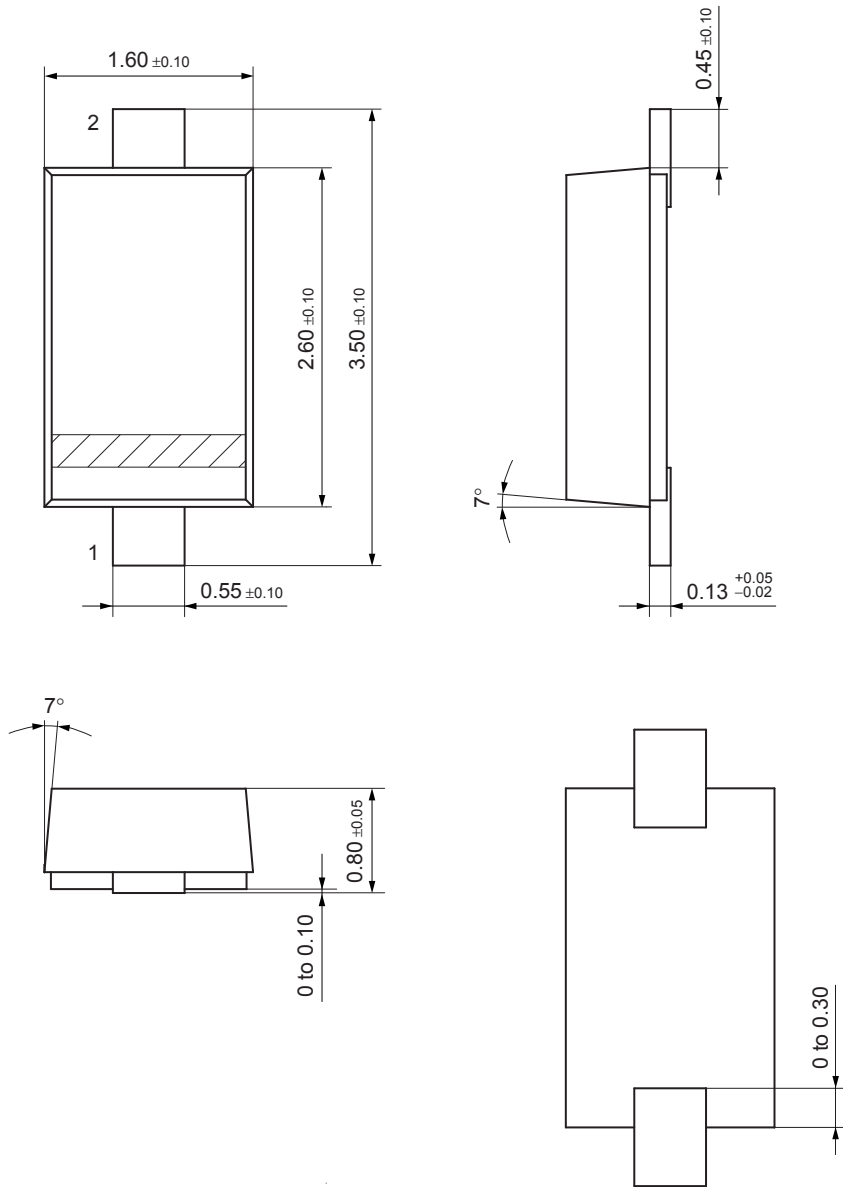
3. \*:  $t_{rr}$  measurement circuit





Mini2-F4-B

Unit: mm



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