

# MA21D34

## Silicon epitaxial planar type

For rectification

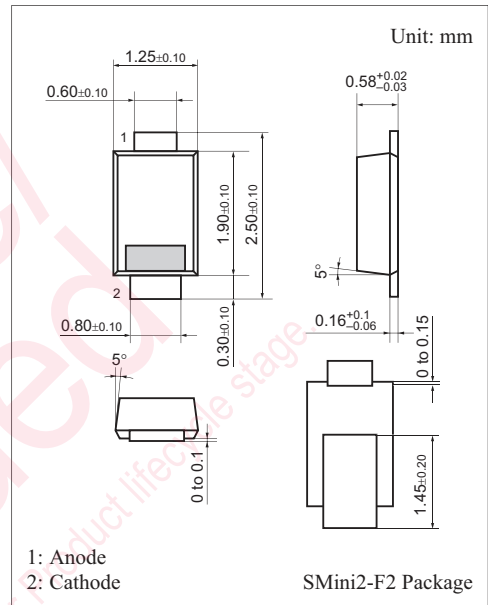
### ■ Features

- Forward current (Average)  $I_{F(AV)} = 1.0$  A rectification is possible
- Low forward voltage  $V_F$

### ■ 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)                   | $I_{F(AV)}$ | 1.0         | A                |
| Non-repetitive peak forward surge current * | $I_{FSM}$   | 20          | A                |
| Junction temperature                        | $T_j$       | 150         | $^\circ\text{C}$ |
| Storage temperature                         | $T_{stg}$   | -55 to +150 | $^\circ\text{C}$ |

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



Marking Symbol: 4V

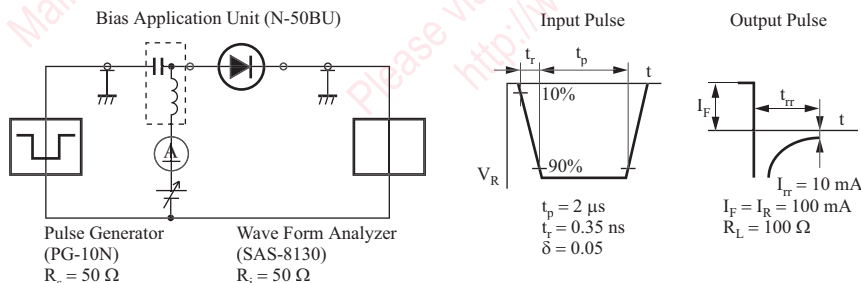
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter               | Symbol   | Conditions   | Min | Typ  | Max  | Unit          |
|-------------------------|----------|--|-----|------|------|---------------|
| Forward voltage         | $V_{F1}$ | $I_F = 0.7$ A  |     | 0.33 | 0.36 | V             |
|                         | $V_{F2}$ | $I_F = 1.0$ A  |     | 0.35 | 0.38 |               |
| Reverse current         | $I_R$    | $V_R = 30$ V   |     |      | 1200 | $\mu\text{A}$ |
| Terminal capacitance    | $C_t$    | $V_R = 10$ V, $f = 1$ MHz                                  |     | 45   |      | pF            |
| Reverse recovery time * | $t_{rr}$ | $I_F = I_R = 100$ mA, $I_{rr} = 10$ mA, $R_L = 100 \Omega$ |     | 14   |      | 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



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