

# MA2ZD14

## Silicon epitaxial planar type

For high speed switching

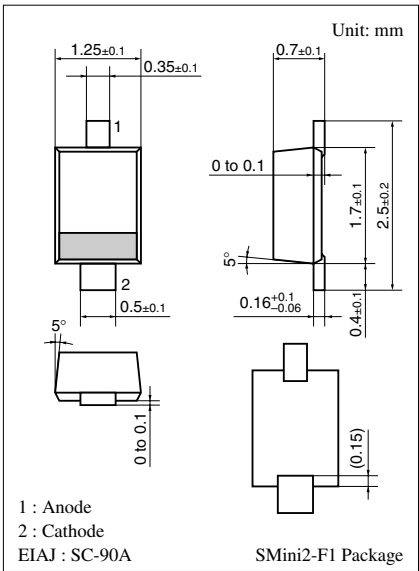
### ■ Features

- Low forward voltage:  $V_F < 0.40 \text{ V}$  (at  $I_F = 100 \text{ mA}$ )
- S-Mini type 2-pin package

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

| Parameter                                   | Symbol      | Rating      | Unit             |
|---------------------------------------------|-------------|-------------|------------------|
| Reverse voltage (DC)                        | $V_R$       | 20          | V                |
| Repetitive peak reverse-voltage             | $V_{RRM}$   | 20          | V                |
| Average forward current                     | $I_{F(AV)}$ | 100         | mA               |
| Peak forward current                        | $I_{FM}$    | 300         | mA               |
| Non-repetitive peak forward-surge-current * | $I_{FSM}$   | 1           | A                |
| Junction temperature                        | $T_j$       | 125         | $^\circ\text{C}$ |
| Storage temperature                         | $T_{stg}$   | -55 to +125 | $^\circ\text{C}$ |

Note) \*: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)



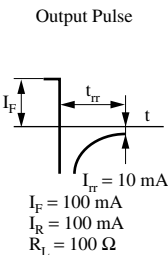
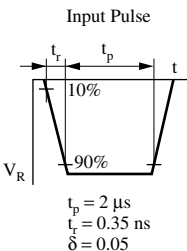
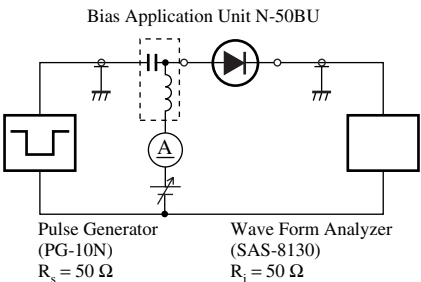
Marking Symbol: 2N

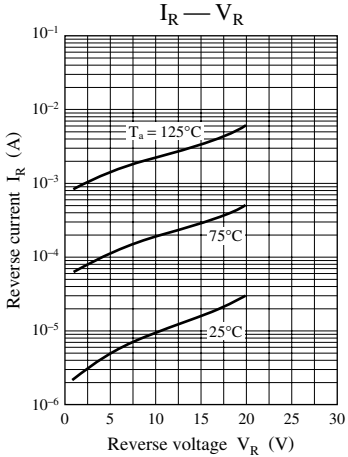
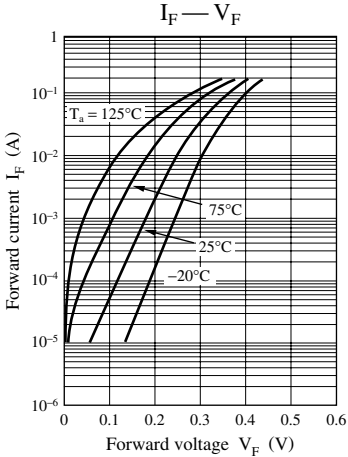
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter               | Symbol   | Conditions                                                              | Min | Typ | Max  | Unit          |
|-------------------------|----------|-------------------------------------------------------------------------|-----|-----|------|---------------|
| Reverse current (DC)    | $I_R$    | $V_R = 10 \text{ V}$                                                    |     |     | 20   | $\mu\text{A}$ |
| Forward voltage (DC)    | $V_{F1}$ | $I_F = 5 \text{ mA}$                                                    |     |     | 0.27 | V             |
|                         | $V_{F2}$ | $I_F = 100 \text{ mA}$                                                  |     |     | 0.40 |               |
| Terminal capacitance    | $C_t$    | $V_R = 0 \text{ V}, f = 1 \text{ MHz}$                                  |     | 25  |      | pF            |
| Reverse recovery time * | $t_{rr}$ | $I_F = I_R = 100 \text{ mA}$<br>$I_R = 10 \text{ mA}, R_L = 100 \Omega$ |     | 3.0 |      | ns            |

Note) 1. 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.

2. Rated input/output frequency: 250 MHz
3. \*:  $t_{rr}$  measuring instrument





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