

# MA2S101

Silicon epitaxial planar type

For switching circuits

■ Features

- High breakdown voltage:  $V_R = 250\text{ V}$
- Small terminal capacitance  $C_t$
- Suitable for high-density mounting

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

| Parameter                                   | Symbol    | Rating      | Unit             |
|---|-----------|-------------|------------------|
| Reverse voltage                             | $V_R$     | 250         | V                |
| Repetitive peak reverse voltage             | $V_{RRM}$ | 250         | V                |
| Forward current                             | $I_F$     | 100         | mA               |
| Peak forward current                        | $I_{FM}$  | 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 | $^\circ\text{C}$ |

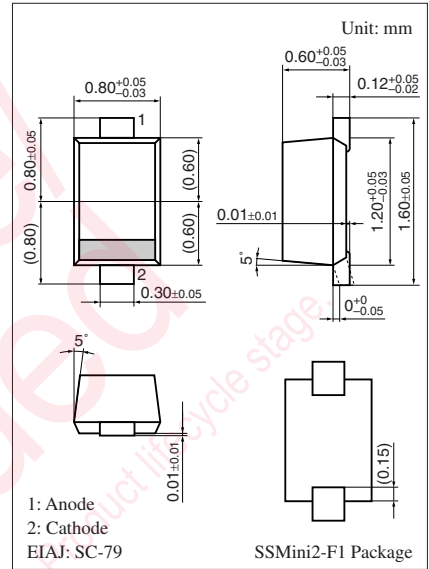
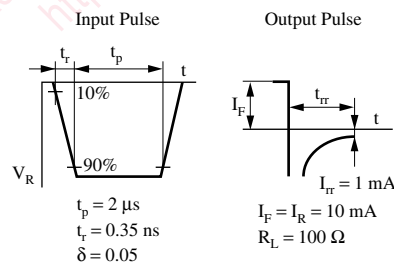
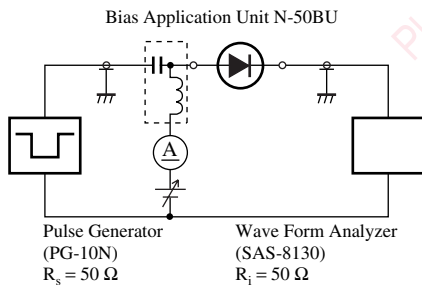
Note) \*:  $t = 1\text{ s}$

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

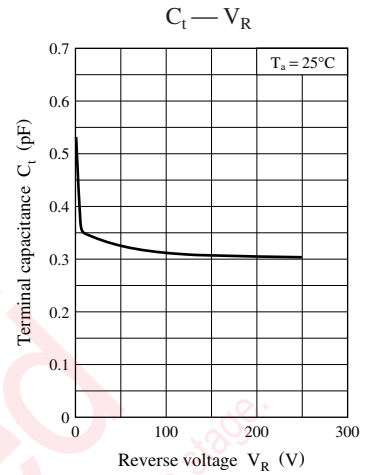
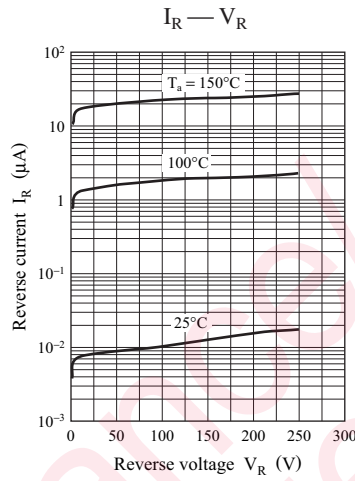
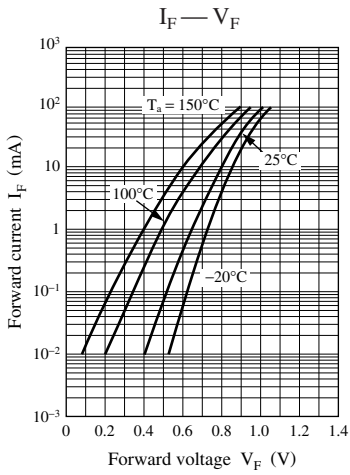
| Parameter               | Symbol   | Conditions  | Min | Typ | Max | Unit          |
|-------------------------|----------|---|-----|-----|-----|---------------|
| Forward voltage         | $V_F$    | $I_F = 70\text{ mA}$  |     |     | 1.2 | V             |
| Reverse current         | $I_R$    | $V_R = 250\text{ V}$  |     |     | 1.0 | $\mu\text{A}$ |
| Terminal capacitance    | $C_t$    | $V_R = 0\text{ V}, f = 1\text{ MHz}$                                    |     |     | 3.0 | pF            |
| Reverse recovery time * | $t_{rr}$ | $I_F = I_R = 10\text{ mA}$<br>$I_{tr} = 1\text{ mA}, R_L = 100\ \Omega$ |     |     | 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



Marking Symbol: 1P



Maintenance/Discontinued

includes following four Product lifecycle stages:

- planned maintenance type
- maintenance type
- planned discontinued type
- discontinued type

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