

MA2S111

Silicon epitaxial planar type

For switching circuits

■ Features

- Allowing high-density mounting
- Short reverse recovery time t_{rr}
- Small terminal capacitance C_t

■ 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 | 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 | $^\circ\text{C}$ |

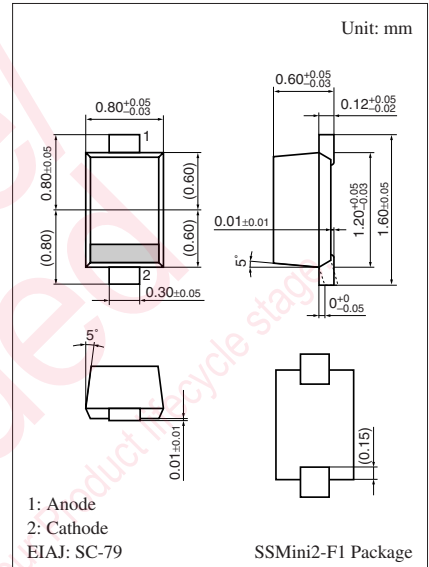
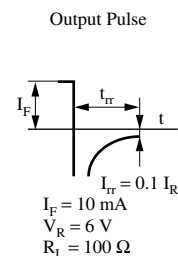
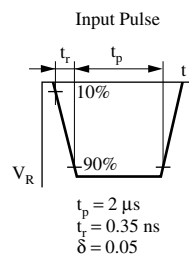
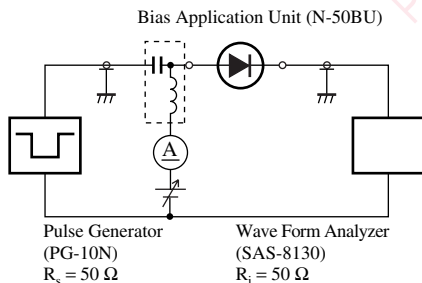
Note) *: $t = 1\text{ s}$

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

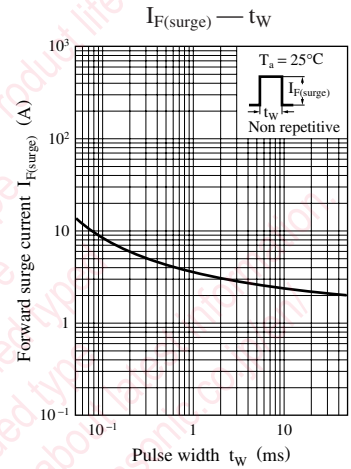
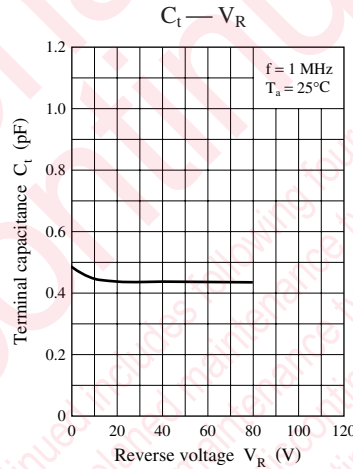
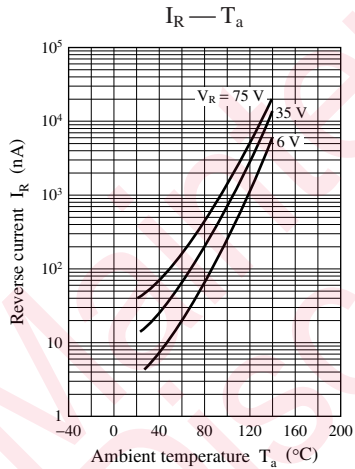
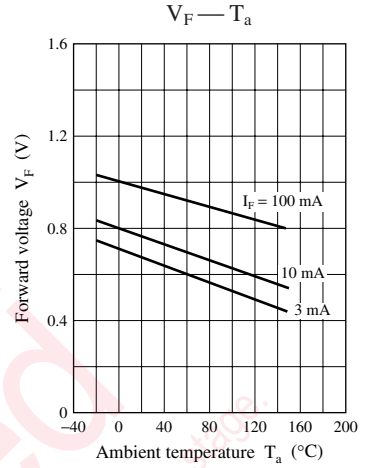
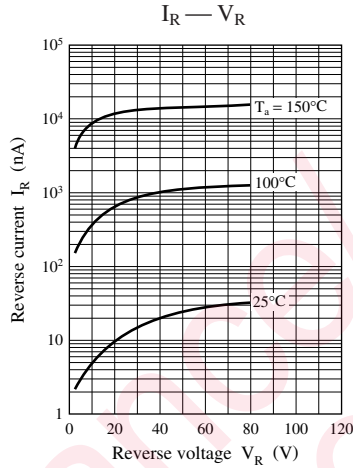
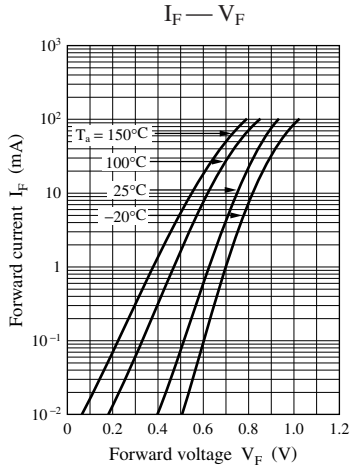
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|---|-----|------|------|------|
| Forward voltage | V_F | $I_F = 100\text{ mA}$ | | 0.95 | 1.20 | V |
| Reverse voltage | V_R | $I_R = 100\ \mu\text{A}$ | 80 | | | V |
| Reverse current | I_R | $V_R = 75\text{ V}$ | | | 100 | nA |
| Terminal capacitance | C_t | $V_R = 0\text{ V}, f = 1\text{ MHz}$ | | 0.6 | 2.0 | pF |
| Reverse recovery time * | t_{rr} | $I_F = 10\text{ mA}, V_R = 6\text{ V}$ $I_{tr} = 0.1 I_R, R_L = 100\ \Omega$ | | | 3 | 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



Marking Symbol: A



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