

MA2J111 (MA111)

Silicon epitaxial planar type

For switching circuits

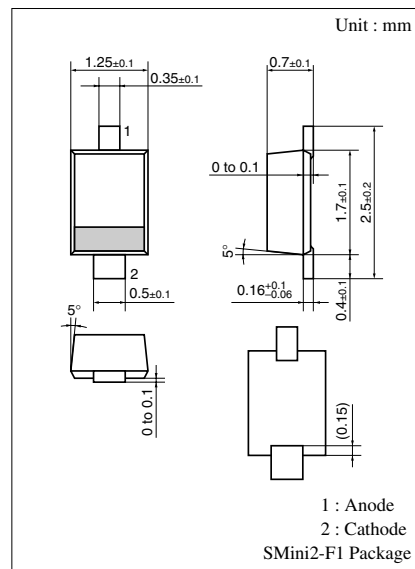
■ Features

- Small S-mini type package, allowing high-density mounting
- Short reverse recovery time t_{rr}
- Small terminal capacitance, C_t
- High breakdown voltage ($V_R = 80$ V)

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

| Parameter | Symbol | Rating | Unit |
|--|-------------|-------------|------------------|
| Reverse voltage (DC) | V_R | 80 | V |
| Peak reverse voltage | V_{RM} | 80 | V |
| Average forward current | $I_{F(AV)}$ | 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) *: $t = 1$ s



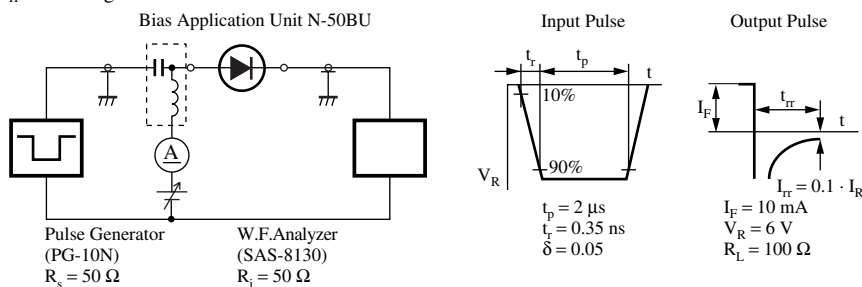
Marking Symbol: 1B

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

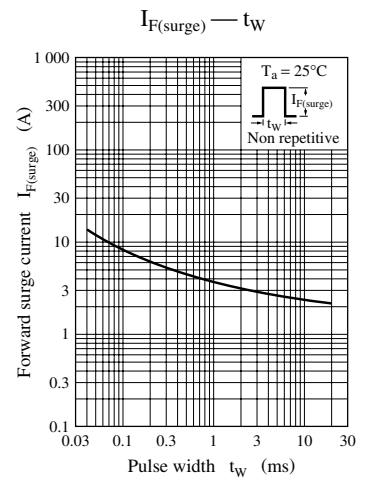
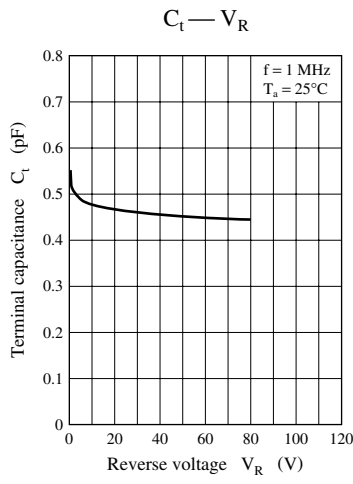
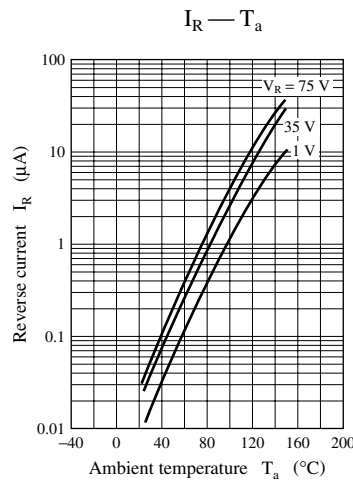
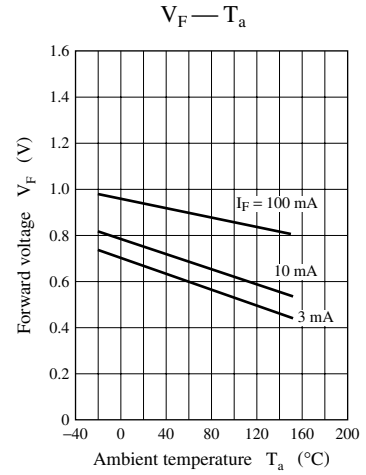
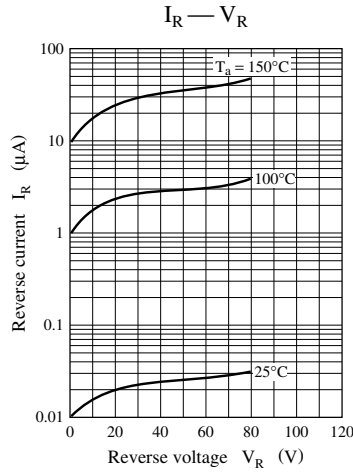
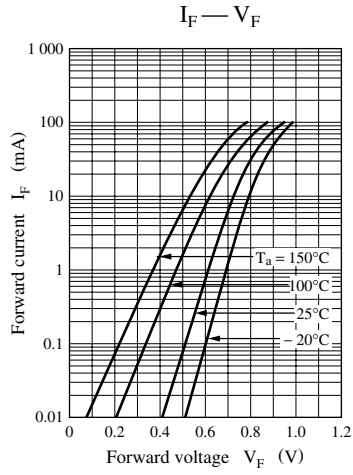
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|------------------------|----------|---|-----|------|-----|------|
| Reverse current (DC) | I_R | $V_R = 75$ V | | | 100 | nA |
| Forward voltage (DC) | V_F | $I_F = 100$ mA | | 0.95 | 1.2 | V |
| Reverse voltage (DC) | V_R | $I_R = 100$ μA | 80 | | | V |
| Terminal capacitance | C_t | $V_R = 0$ V, $f = 1$ MHz | | 0.6 | 1.2 | pF |
| Reverse recovery time* | t_{rr} | $I_F = 10$ mA, $V_R = 6$ V $I_{rr} = 0.1 \cdot I_R$, $R_L = 100$ Ω | | | 3 | ns |

Note) 1. Rated input/output frequency: 100 MHz

2. *: t_{rr} measuring circuit



Note) The part number in the parenthesis shows conventional part number.



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