

MA2S784

Silicon epitaxial planar type

For super high speed switching

For small current rectification

■ Features

- High-density mounting is possible
- $I_{F(AV)} = 100$ mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- Low forward voltage V_F and good rectification efficiency
- SS-Mini type 2-pin package

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

| Parameter | Symbol | Rating | Unit |
|---|-------------|-------------|------------------|
| Reverse voltage (DC) | V_R | 30 | V |
| Repetitive peak reverse-voltage | V_{RRM} | 30 | V |
| Peak forward current | I_{FM} | 300 | mA |
| Average forward current | $I_{F(AV)}$ | 100 | 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)

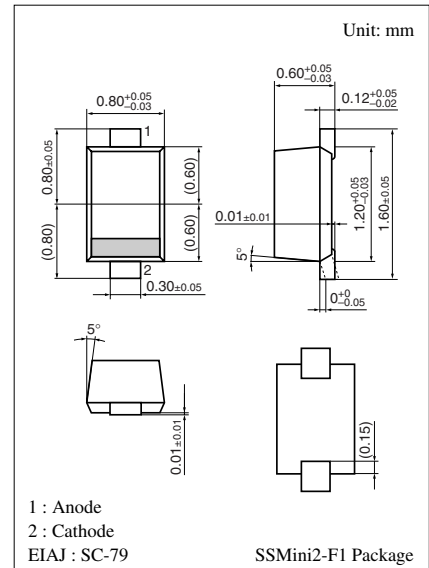
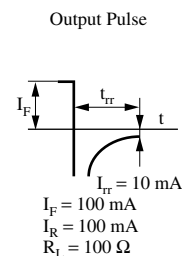
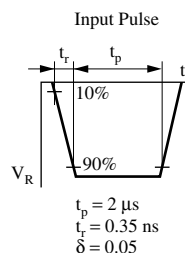
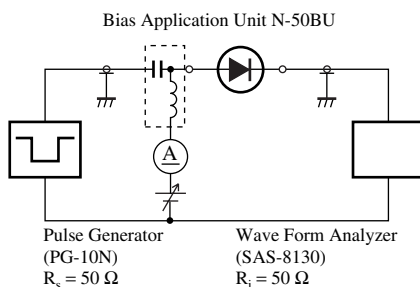
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|-----|------|---------------|
| Reverse current (DC) | I_R | $V_R = 30$ V | | | 15 | μA |
| Forward voltage (DC) | V_F | $I_F = 100$ mA | | | 0.55 | V |
| Terminal capacitance | C_t | $V_R = 0$ V, $f = 1$ MHz | | 20 | | pF |
| Reverse recovery time * | t_{rr} | $I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100 \Omega$ | | 2.0 | | ns |

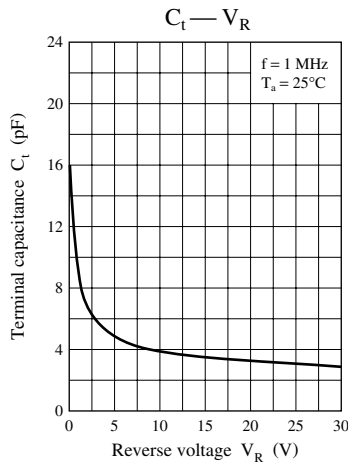
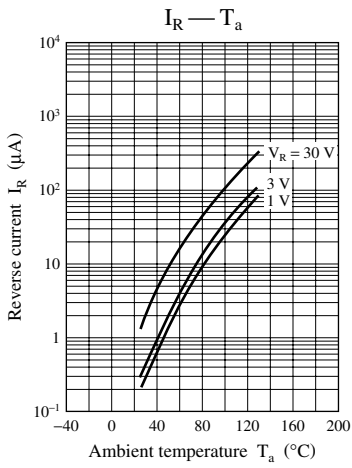
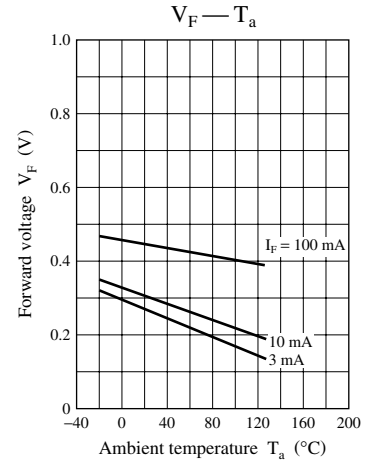
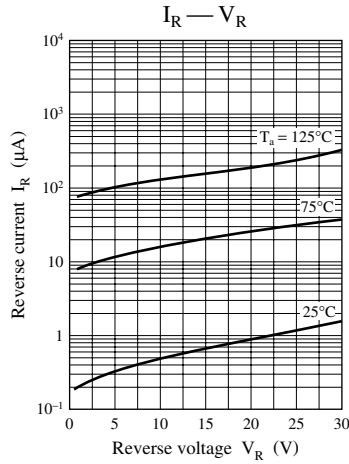
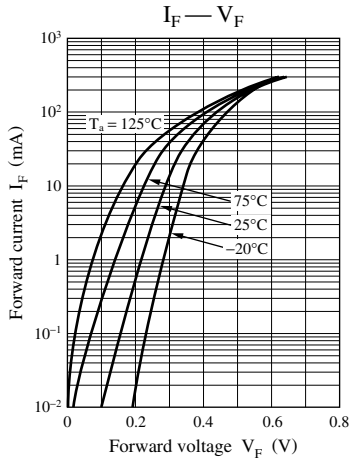
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 250 MHz

3. *: t_{rr} measuring instrument



Marking Symbol: C



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