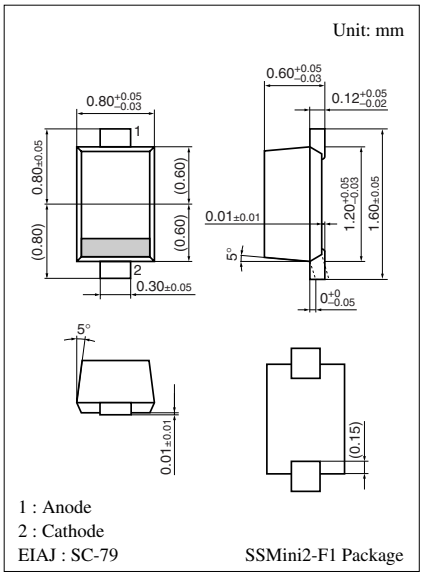
# MA2SD24

## Silicon epitaxial planar type

For super high speed switching




Marking Symbol: 5L

### ■ Features

- $I_{F(AV)}$ = 200 mA rectification is possible
- Small reverse current: $I_R$ = 1 µA
- SS-Mini type 2-pin package

### ■ Absolute Maximum Ratings $T_a$ = 25°C

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Reverse voltage (DC) | $V_R$ | 20 | V |
| Repetitive peak reverse-voltage | $V_{RRM}$ | 20 | V |
| Peak forward current | $I_{FM}$ | 300 | mA |
| Average forward current | $I_{F(AV)}$ | 200 | mA |
| Non-repetitive peak forward-surge-current * | $I_{FSM}$ | 1 | A |
| Junction temperature | $T_j$ | 125 | °C |
| Storage temperature | $T_{stg}$ | −55 to +125 | °C |

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

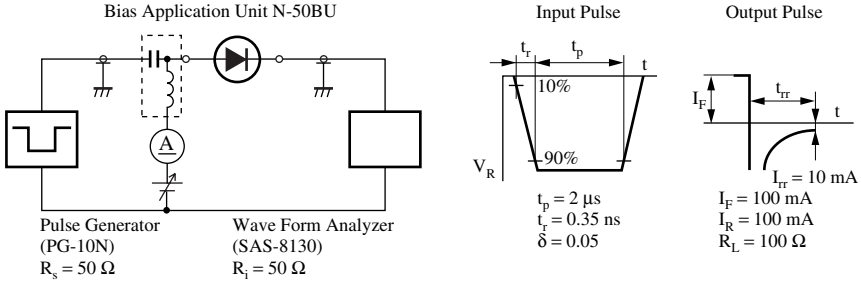
### ■ Electrical Characteristics $T_a$ = 25°C ± 3°C

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse current (DC) | $I_R$ | $V_R$ = 10 V | | 0.1 | 1 | µA |
| Forward voltage (DC) | $V_F$ | $I_F$ = 200 mA | | 0.50 | 0.58 | V |
| Terminal capacitance | $C_t$ | $V_R$ = 0 V, f = 1 MHz | | 25 | | pF |
| Reverse recovery time * | $t_{rr}$ | $I_F = I_R$ = 100 mA<br>$I_{rr}$ = 10 mA, $R_L$ = 100 Ω | | 3 | | ns |

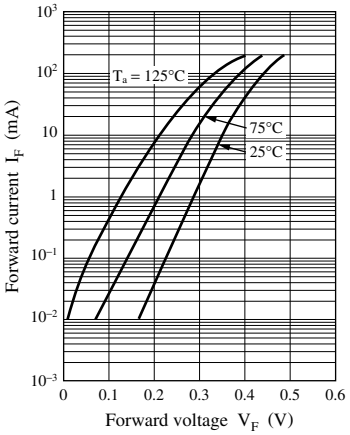
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 250 MHz

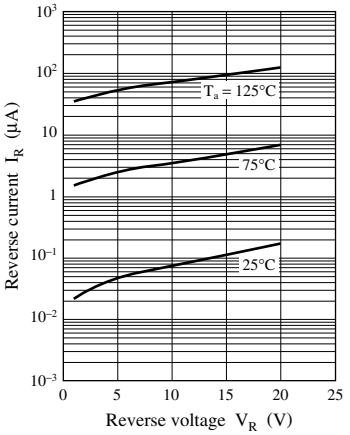
3. ∗: $t_{rr}$ measuring instrument



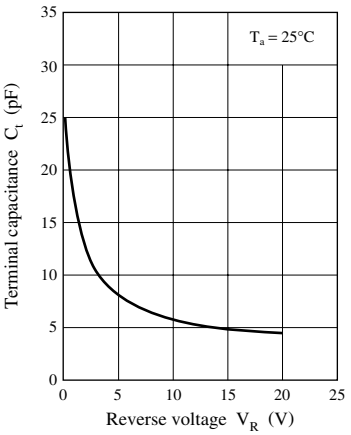
$I_F$ — $V_F$




$I_R$ — $V_R$




$C_t$ — $V_R$



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