

# MA2SD19

## Silicon epitaxial planar type

For super high speed switching

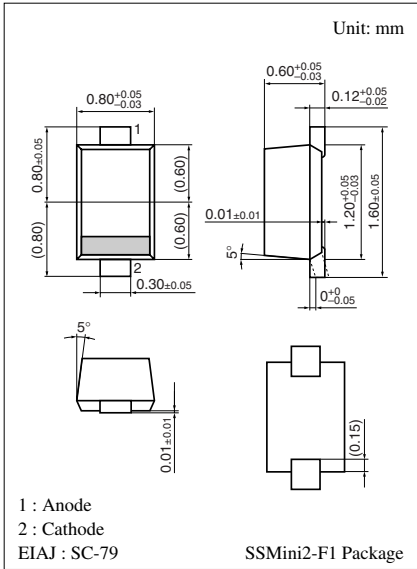
### ■ Features

- $I_{F(AV)} = 200$  mA rectification is possible
- Low forward voltage:  $V_F < 0.47$  V (at  $I_F = 200$  mA)
- Small reverse current:  $I_R < 20$   $\mu$ A (at  $V_R = 10$  V)
- SS-Mini type 2-pin package

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

| Parameter                                   | Symbol      | Rating      | Unit             |
|---------------------------------------------|-------------|-------------|------------------|
| Reverse voltage (DC)                        | $V_R$       | 20          | V                |
| Repetitive peak reverse-voltage             | $V_{RRM}$   | 20          | V                |
| Non-repetitive peak forward-surge-current * | $I_{FSM}$   | 1           | A                |
| Peak forward current                        | $I_{FM}$    | 300         | mA               |
| Average forward current                     | $I_{F(AV)}$ | 200         | mA               |
| 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)



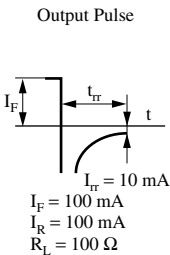
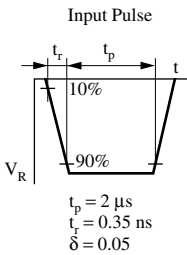
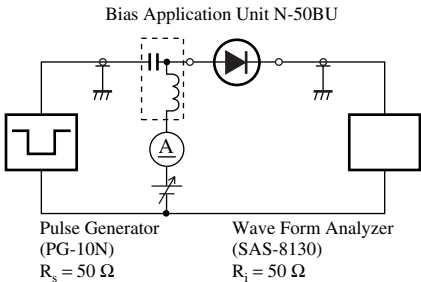
Marking Symbol: 3L

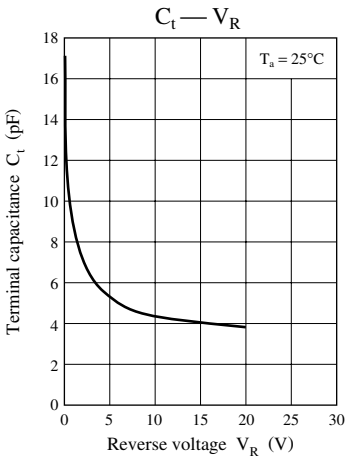
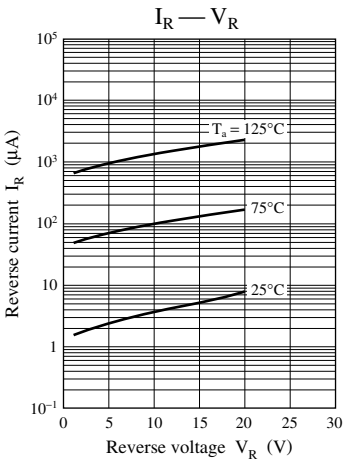
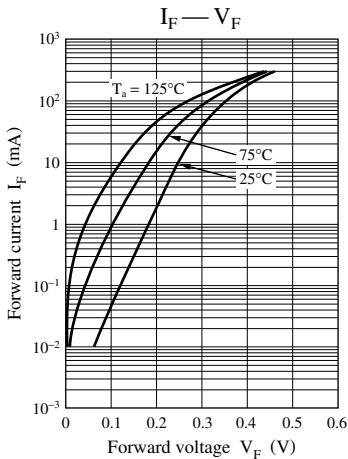
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter               | Symbol   | Conditions                                                     | Min | Typ | Max  | Unit    |
|-------------------------|----------|----------------------------------------------------------------|-----|-----|------|---------|
| Reverse current (DC)    | $I_R$    | $V_R = 10$ V                                                   |     |     | 20   | $\mu$ A |
| Forward voltage (DC)    | $V_F$    | $I_F = 200$ mA                                                 |     |     | 0.47 | V       |
| Terminal capacitance    | $C_t$    | $V_R = 0$ V, $f = 1$ MHz                                       |     | 15  |      | pF      |
| Reverse recovery time * | $t_{rr}$ | $I_F = I_R = 100$ mA<br>$I_{rr} = 10$ mA, $R_L = 100$ $\Omega$ |     | 2   |      | 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





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