

# MA2J11

## Silicon epitaxial planar type

For switching circuits

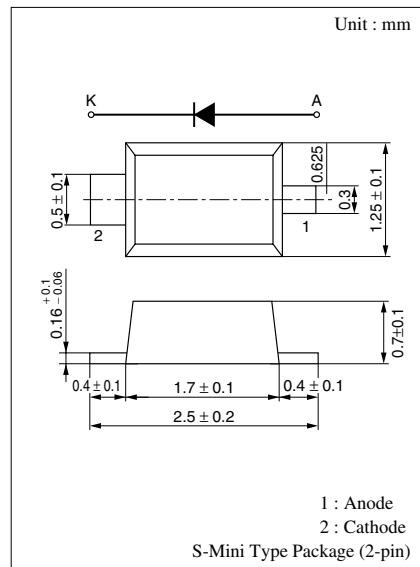
### ■ Features

- 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         | °C   |
| Storage temperature                        | $T_{stg}$   | -55 to +150 | °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)   | $V_R$    | $I_R = 100$ $\mu$ A   | 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<br>$I_{rr} = 0.1 \cdot I_R$ , $R_L = 100$ $\Omega$ |     |      | 3   | ns   |

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

2. \* :  $t_{rr}$  measuring circuit

