

# Switching Diode

## UMP11N

## ●Applications

### Ultra high speed switching

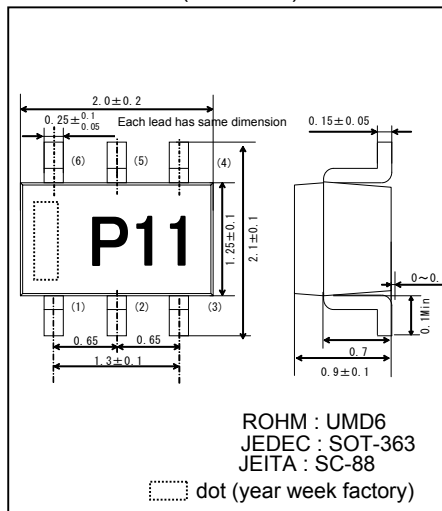
## ●Features

- 1) Small mold type. (UMD6)
- 2) High reliability.

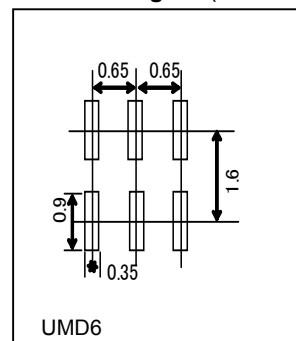
## ●Construction

Silicon epitaxial planar

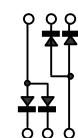
●Dimensions (Unit : mm)



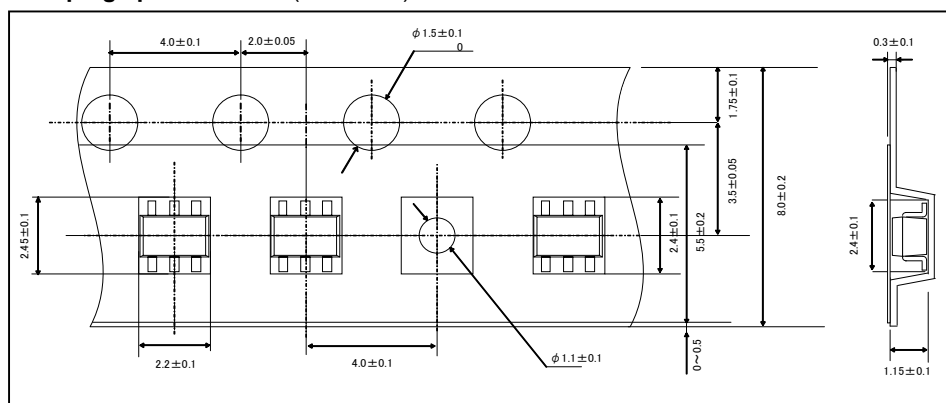
●Land size figure (Unit : mm)



### ● Structure



●Taping specifications (Unit : mm)

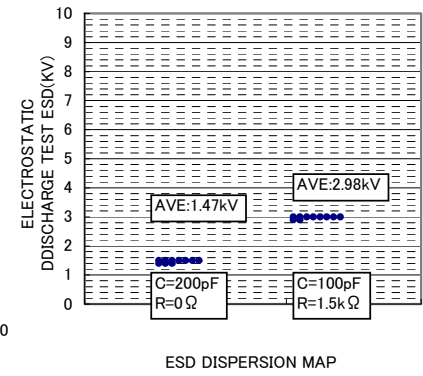
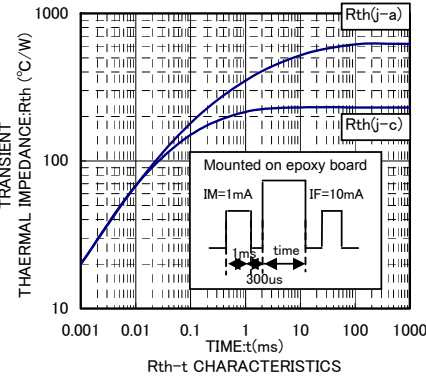
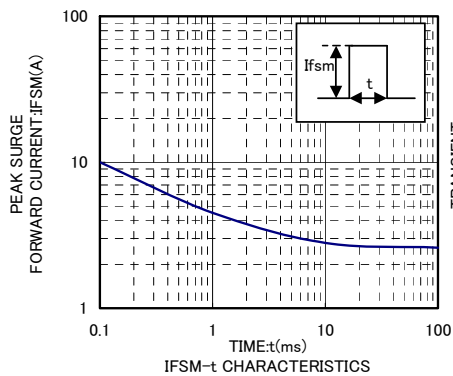
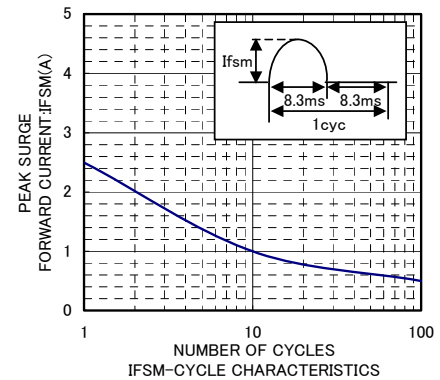
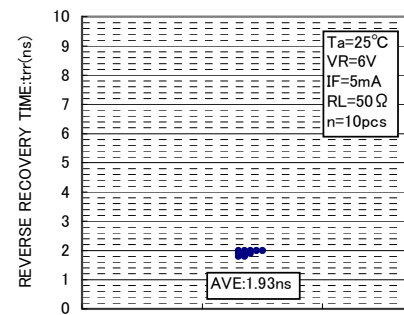
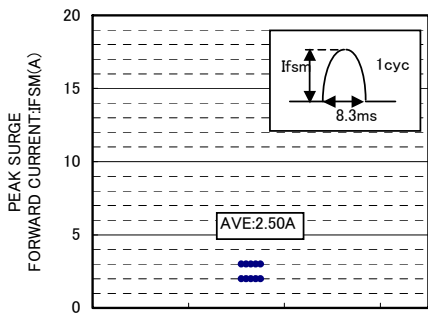
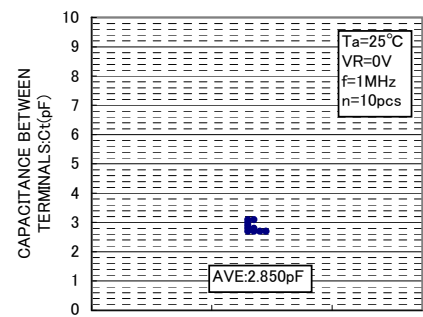
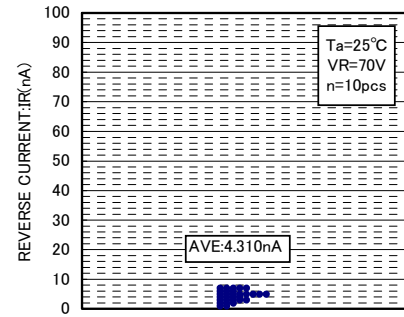
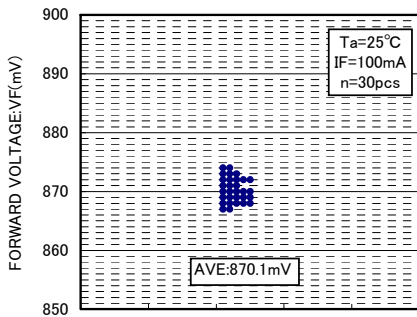
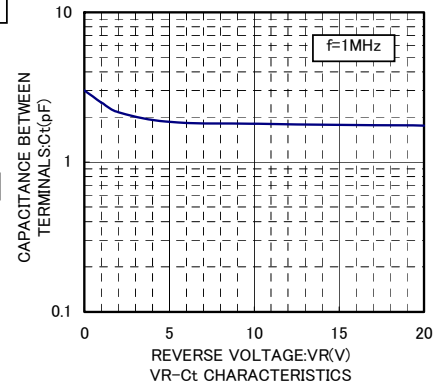
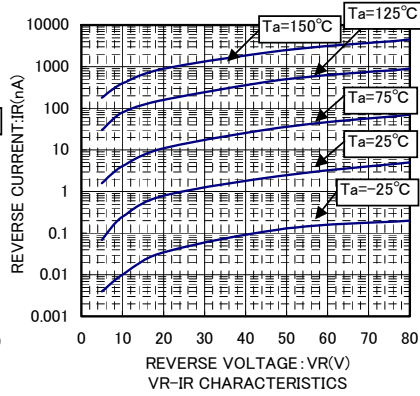
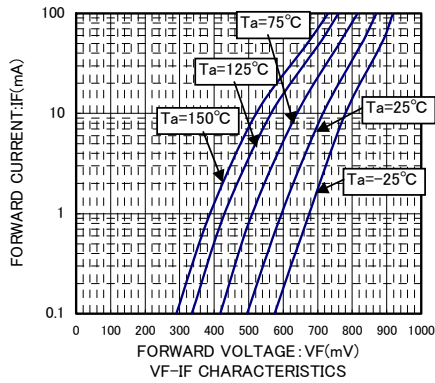


●Absolute maximum ratings (Ta=25°C)

| Parameter                         | Symbol      | Limits      | Unit        |
|-----------------------------------|-------------|-------------|-------------|
| Reverse voltage (repetitive peak) | $V_{RM}$    | 80          | V           |
| Reverse voltage (DC)              | $V_R$       | 80          | V           |
| Forward current (Single)          | $I_{FM}$    | 300         | mA          |
| Average rectified forward current | $I_o$       | 100         | mA          |
| Surge current ( $t=1\mu s$ )      | $I_{surge}$ | 4           | A           |
| Power dissipation                 | $P_d$       | 150         | mW          |
| Junction temperature              | $T_j$       | 150         | $^{\circ}C$ |
| Storage temperature               | $T_{stg}$   | -55 to +150 | $^{\circ}C$ |

●Electrical characteristics (Ta=25°C)

| Parameter                     | Symbol   | Min. | Typ. | Max. | Unit          | Conditions                                          |
|-------------------------------|----------|------|------|------|---------------|-----------------------------------------------------|
| Forward voltage               | $V_F$    | -    | -    | 1.2  | V             | $I_F=100\text{mA}$                                  |
| Reverse current               | $I_R$    | -    | -    | 0.1  | $\mu\text{A}$ | $V_R=70\text{V}$                                    |
| Capacitance between terminals | $C_t$    | -    | -    | 3.5  | pF            | $V_R=6\text{V}$ , $f=1\text{MHz}$                   |
| Reverse recovery time         | $t_{rr}$ | -    | -    | 4    | ns            | $V_R=6\text{V}$ , $I_F=5\text{mA}$ , $R_L=50\Omega$ |



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