

# Switching Diode

## DA221

## ●Applications

## Ultra high speed switching

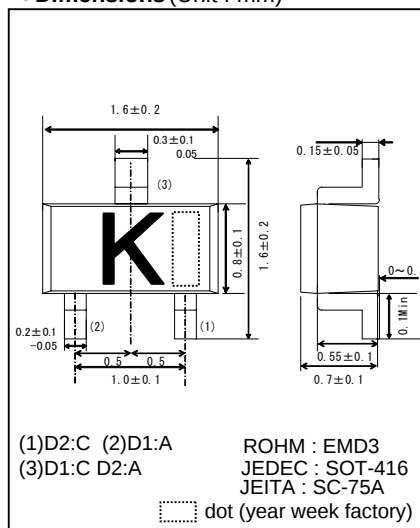
## ●Features

- 1) Ultra small mold type. (EMD3)
- 2) High reliability.

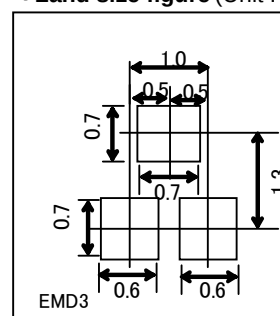
## ●Construction

Silicon epitaxial planar

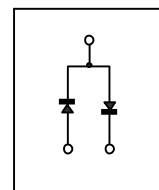
● **Dimensions** (Unit : mm)



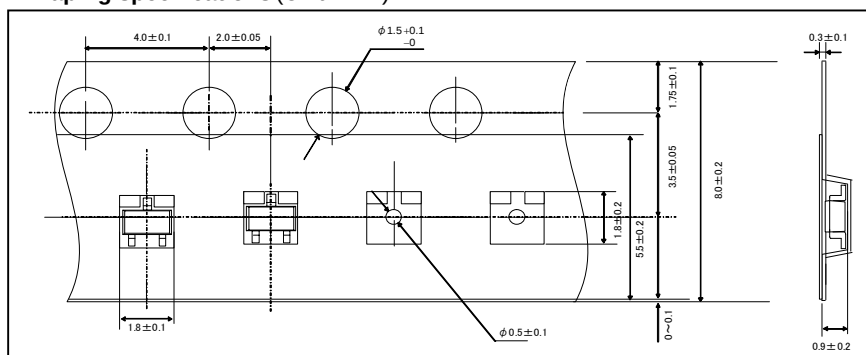
●Land size figure (Unit : mm)



### ● Structure



●Taping specifications (Unit : mm)

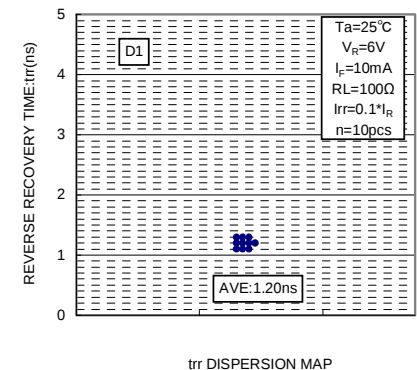
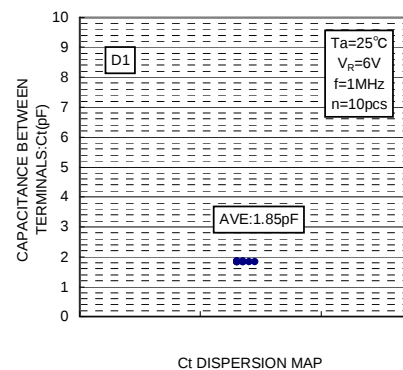
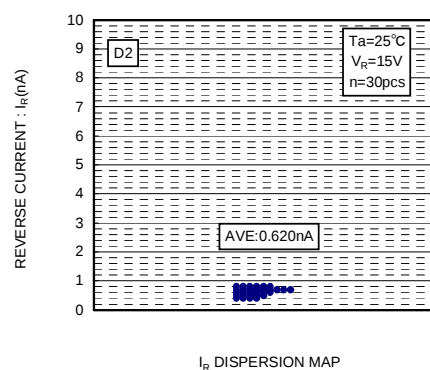
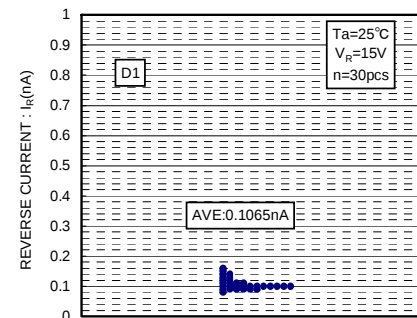
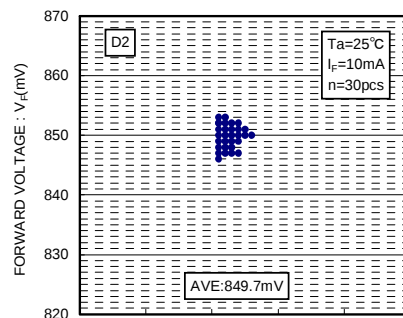
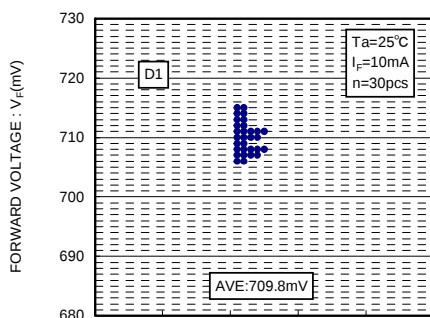
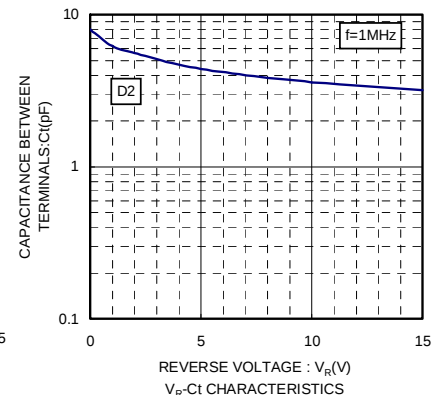
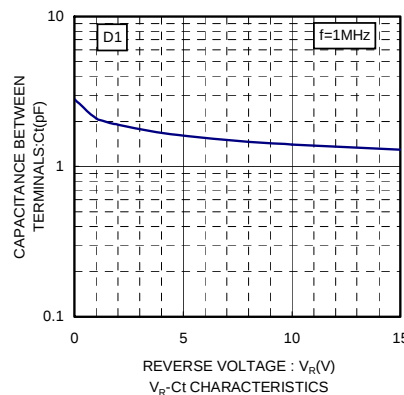
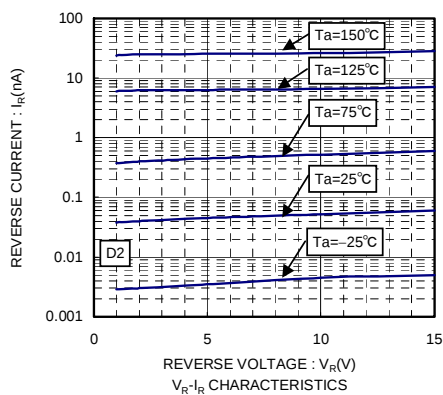
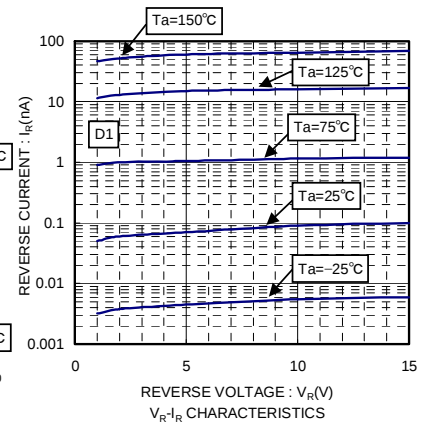
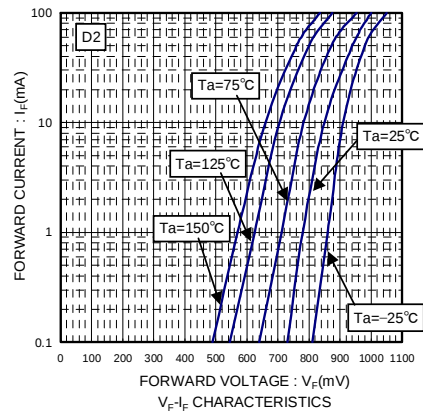
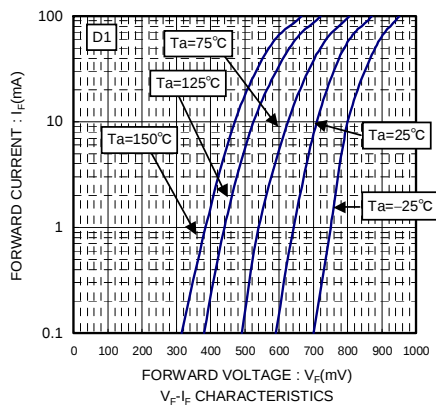


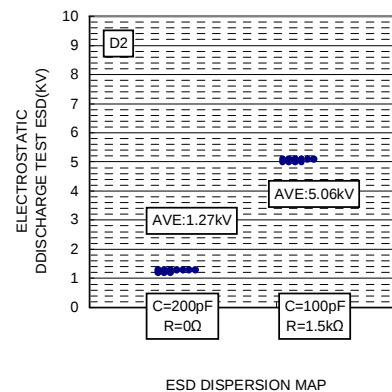
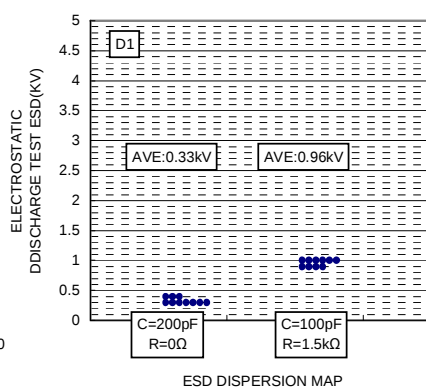
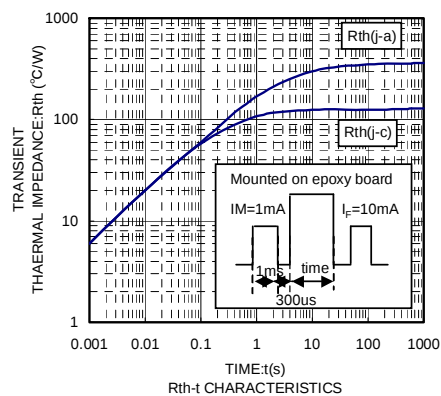
●Absolute maximum ratings (Ta=25°C)

| Parameter                                  | Symbol      | Limits      | Unit |
|--------------------------------------------|-------------|-------------|------|
| Reverse voltage (repetitive peak)          | $V_{RM}$    | 20          | V    |
| Reverse voltage (DC)                       | $V_R$       | 20          | V    |
| Forward current (Single)                   | $I_{FM}$    | 200         | mA   |
| Average rectified forward current (Single) | $I_o$       | 100         | mA   |
| Surge current (t=1us)                      | $I_{surge}$ | 300         | mA   |
| Power dissipation                          | $P_d$       | 150         | mW   |
| Junction temperature                       | $T_j$       | 150         | °C   |
| Storage temperature                        | $T_{stg}$   | -55 to +150 | °C   |
| Rated in slash put frequency               | f           | 100         | MHz  |

●Electrical characteristics (Ta=25°C)

| Parameter                     | Symbol | Min. | Typ. | Max. | Unit    | Conditions          |
|-------------------------------|--------|------|------|------|---------|---------------------|
| Forward voltage               | $V_F$  | -    | -    | 1.0  | V       | $I_F=10mA$          |
| Reverse current               | $I_R$  | -    | -    | 0.1  | $\mu A$ | $V_R=15V$           |
| Capacitance between terminals | $C_t$  | -    | -    | 4.0  | pF      | $V_R=6V$ , $f=1MHz$ |





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