

# Switching diode

## DA204U

### ●Applications

Ultra high speed switching

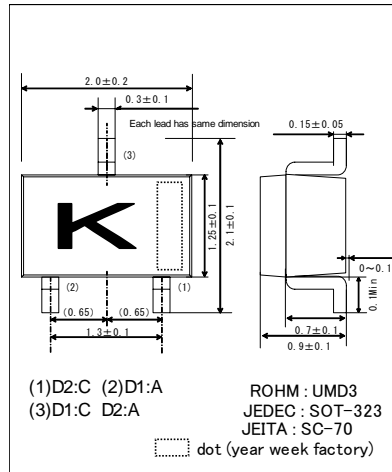
### ●Features

- 1) Small mold type. (UMD3)
- 2) High reliability.

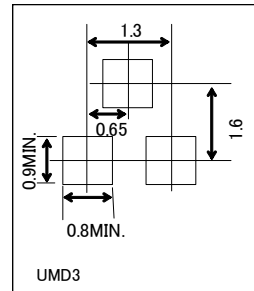
### ●Construction

Silicon epitaxial planar

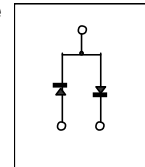
### ●External dimensions (Unit : mm)



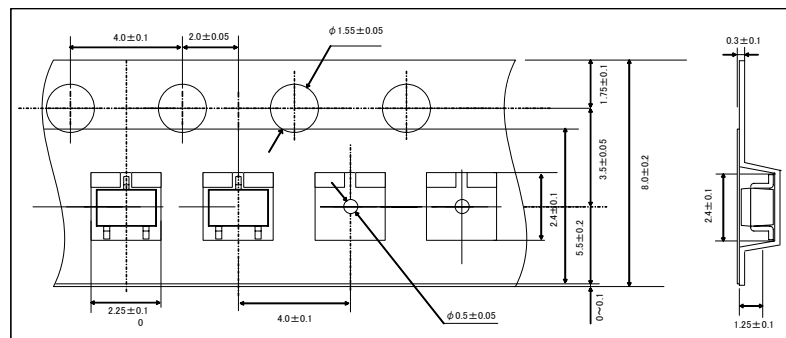
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



### ●Absolute maximum ratings (Ta=25°C)

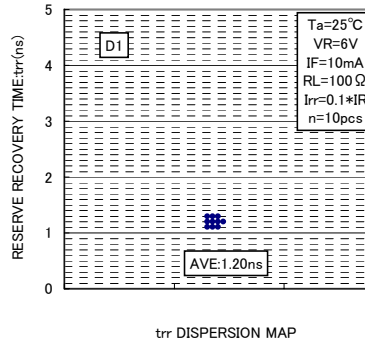
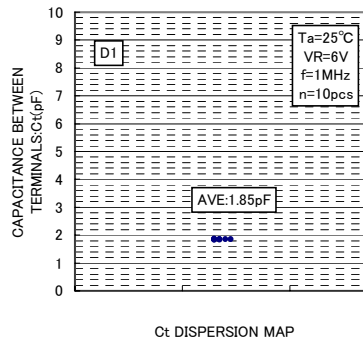
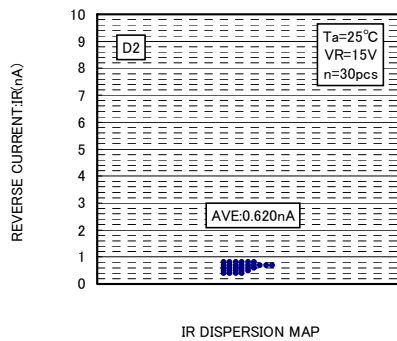
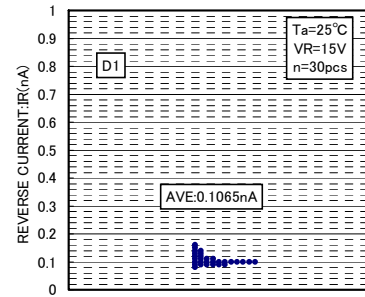
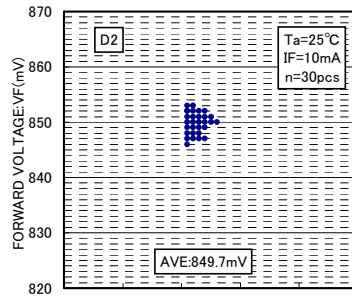
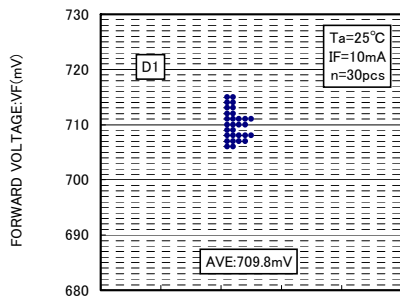
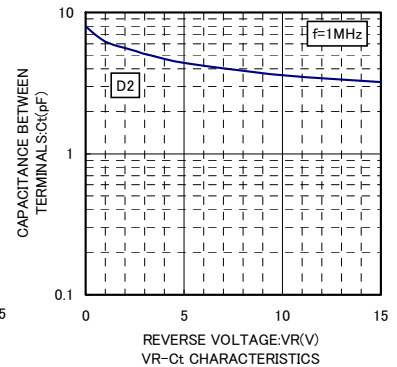
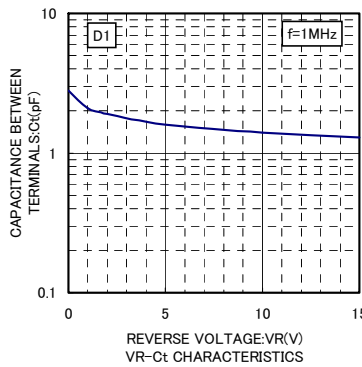
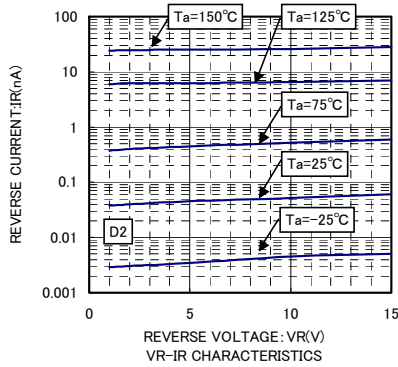
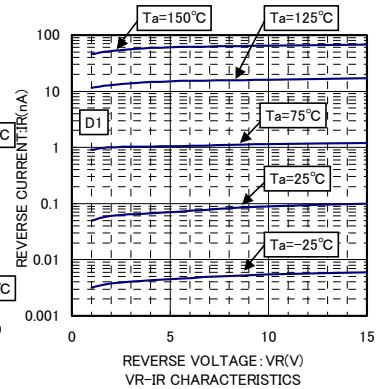
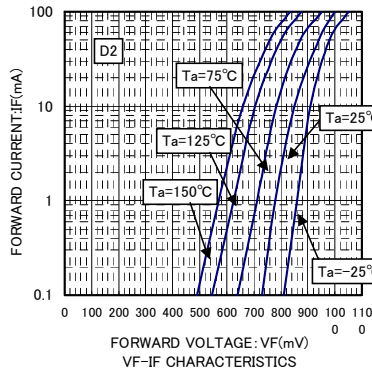
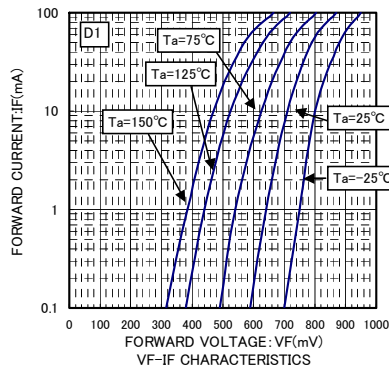
| Parameter                         | Symbol      | Limits      | Unit |
|-----------------------------------|-------------|-------------|------|
| Reverse voltage (repetitive peak) | $V_{RM}$    | 20          | V    |
| Reverse voltage (DC)              | $V_R$       | 20          | V    |
| Forward current (Single)          | $I_{FM}$    | 200         | mA   |
| Average rectified forward current | $I_o$       | 100         | mA   |
| Surge current (t=1us)             | $I_{surge}$ | 300         | mA   |
| Power dissipation                 | $P_d$       | 200         | 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)

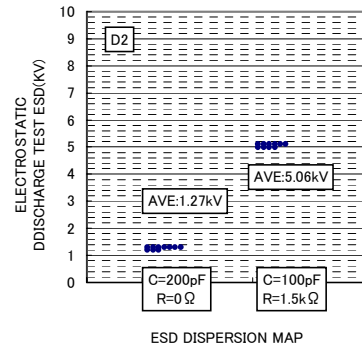
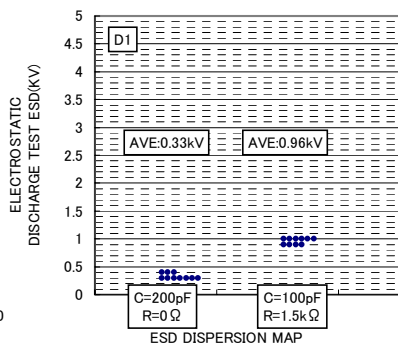
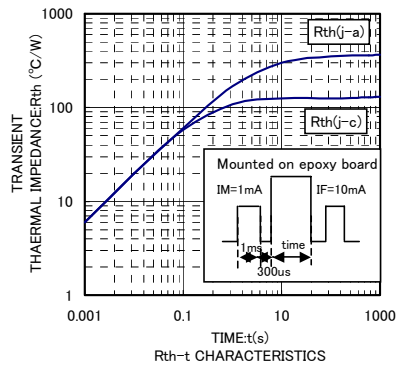
| Parameter                     | Symbol | Min. | Typ. | Max. | Unit | Conditions       |
|-------------------------------|--------|------|------|------|------|------------------|
| Forward voltage               | $V_F$  | -    | -    | 1.0  | V    | $I_F=10mA$       |
| Reverse current             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

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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