

# Schottky Barrier Diode

# RB461F

## ● Applications

### Low power rectification

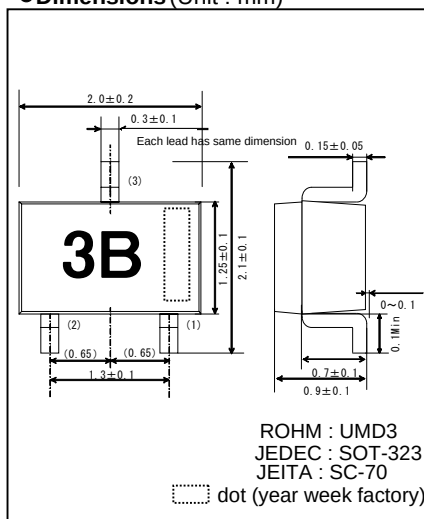
## ●Features

- 1) Small mold type. (UMD3)
- 2) Low  $V_F$ .
- 3) High reliability

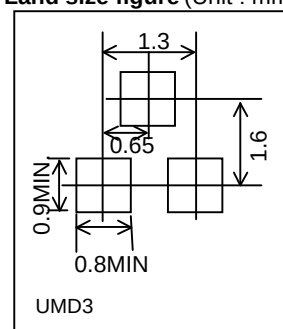
## ●Construction

Silicon epitaxial planer

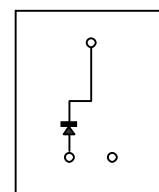
● **Dimensions** (Unit : mm)



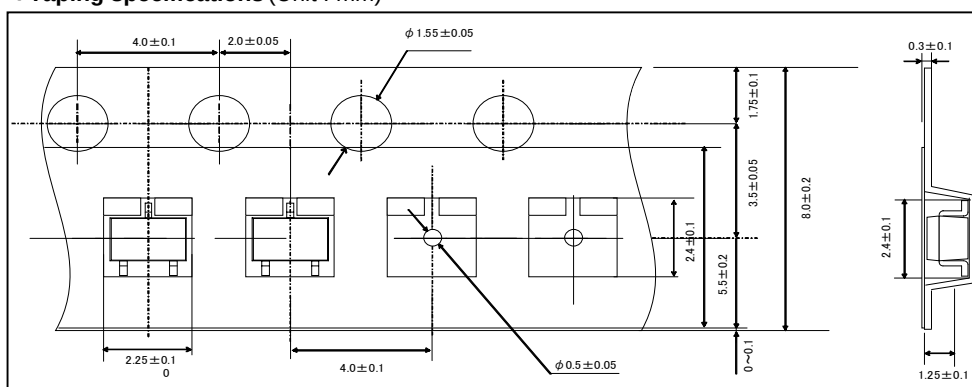
●Land size figure (Unit : mm)



### ● Structure



●Taping specifications (Unit : mm)

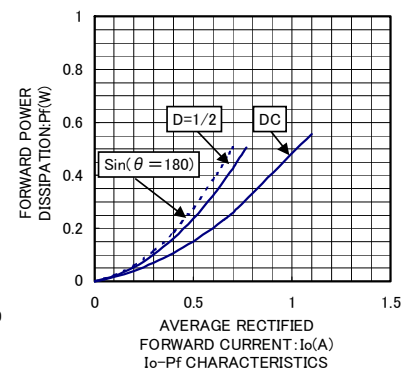
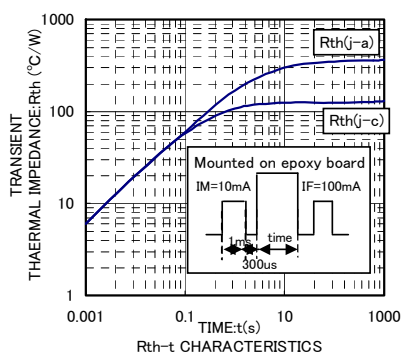
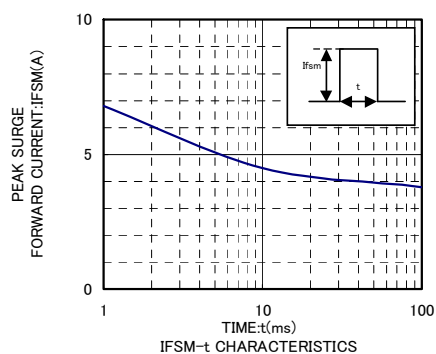
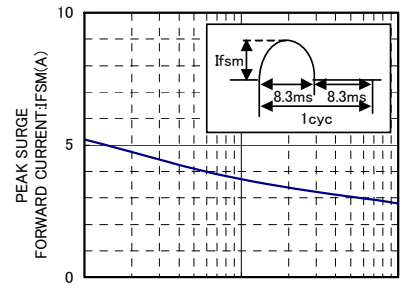
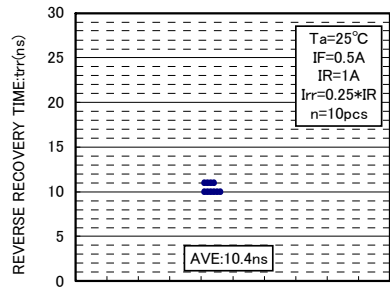
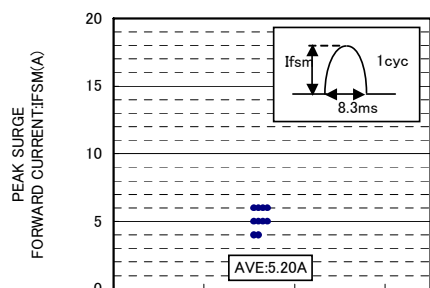
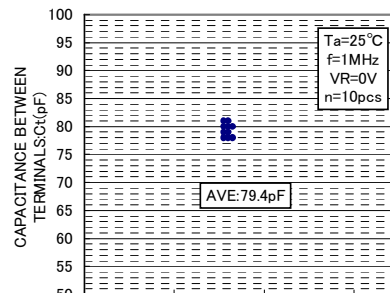
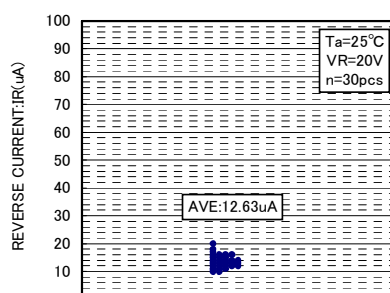
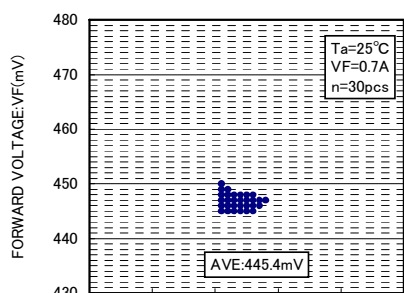
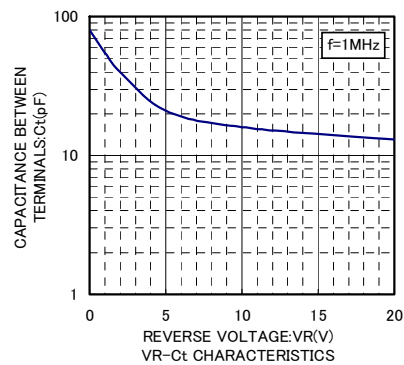
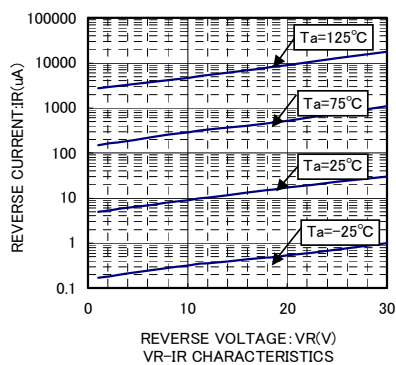
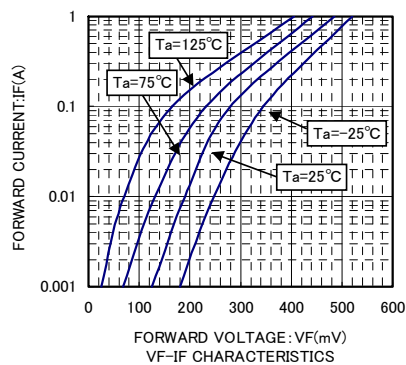


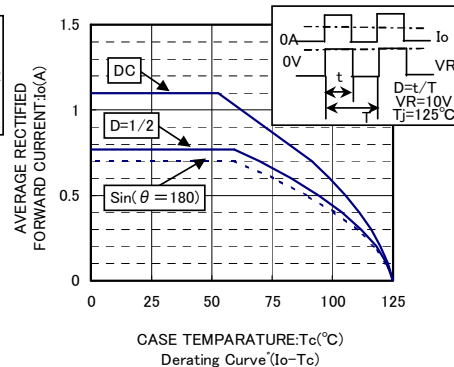
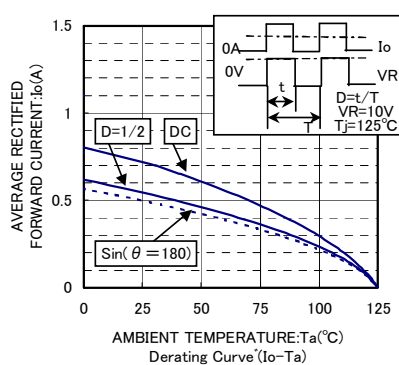
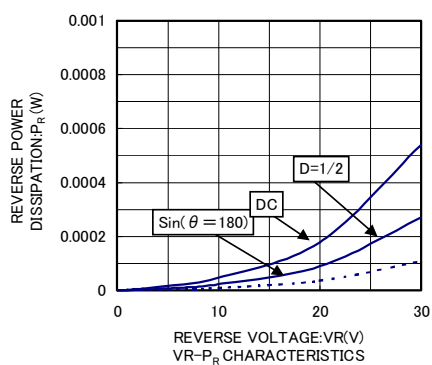
●Absolute maximum ratings (Ta=25°C)

| Parameter                                     | Symbol    | Limits      | Unit |
|-----------------------------------------------|-----------|-------------|------|
| Reverse voltage (repetitive)                  | $V_{RM}$  | 25          | V    |
| Reverse voltage (DC)                          | $V_R$     | 20          | V    |
| Average rectified forward current             | $I_o$     | 0.7         | A    |
| Forward current surge peak (60Hz • 1cyc) (*1) | $I_{FSM}$ | 3           | A    |
| Junction temperature                          | $T_j$     | 125         | °C   |
| Storage temperature                           | $T_{stg}$ | -40 to +125 | °C   |

### ●Electrical characteristics (Ta=25°C)

| Parameter       | Symbol | Min. | Typ. | Max. | Unit    | Conditions  |
|-----------------|--------|------|------|------|---------|-------------|
| Forward voltage | $V_F$  | -    | -    | 0.49 | V       | $I_F=700mA$ |
| Reverse current | $I_R$  | -    | -    | 200  | $\mu A$ | $V_R=20V$   |





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