

# Schottky barrier diode

## RB070M-30

### ●Applications

General rectification  
 (Common cathode dual chip)

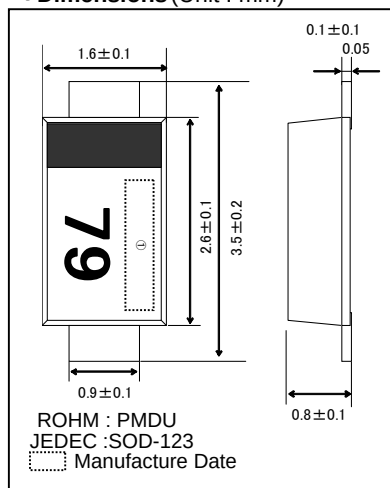
### ●Features

- 1) Small power mold type.  
 (PMDU)
- 2) Low IR
- 3) High reliability

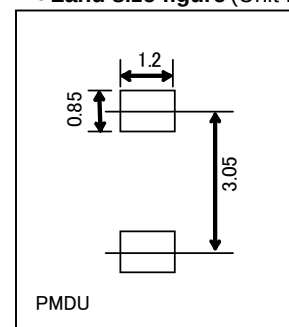
### ●Construction

Silicon epitaxial planar

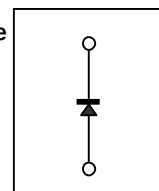
### ●Dimensions (Unit : mm)



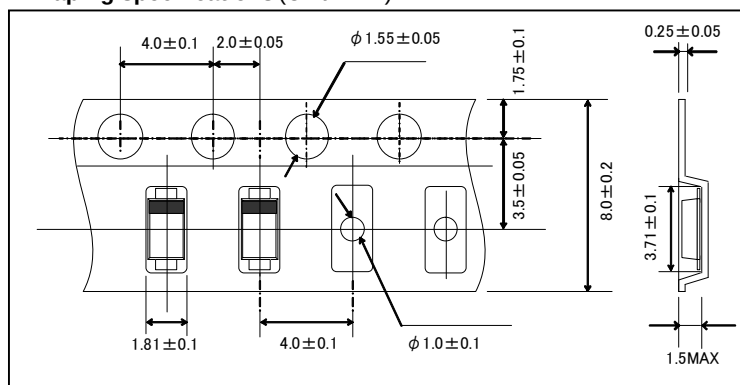
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



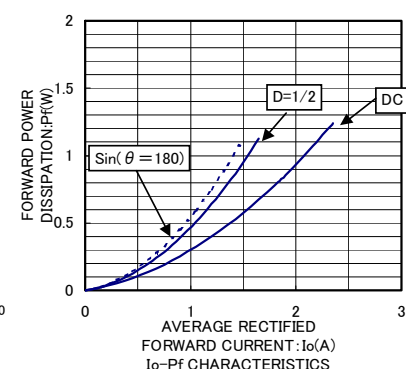
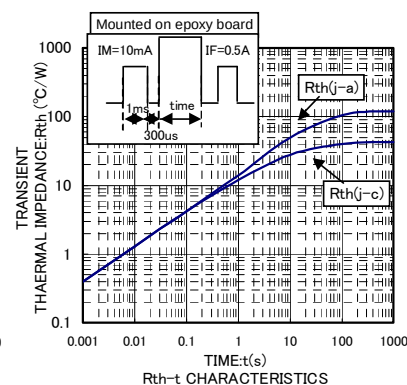
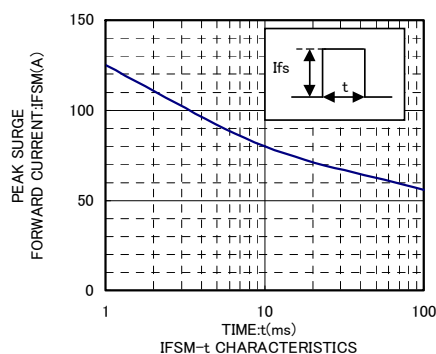
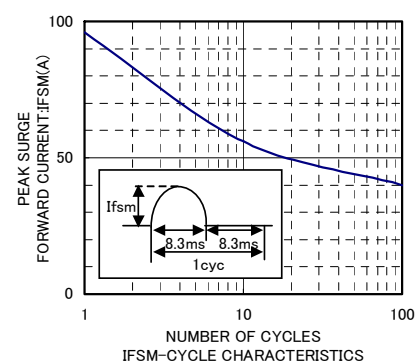
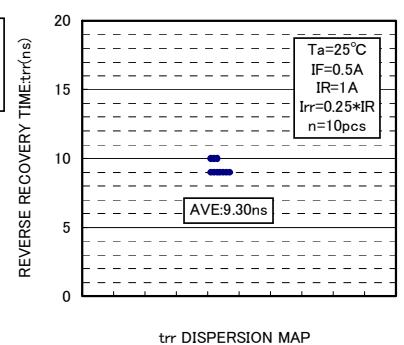
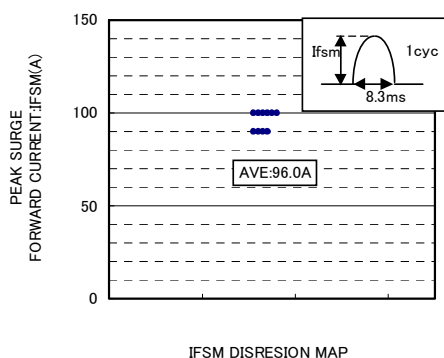
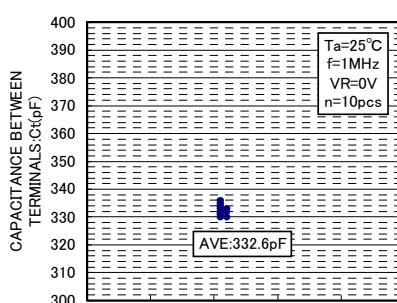
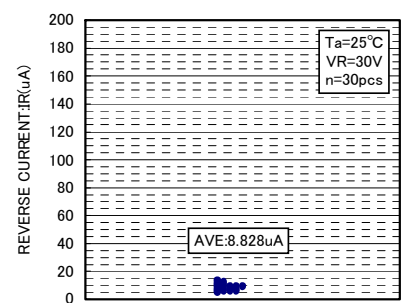
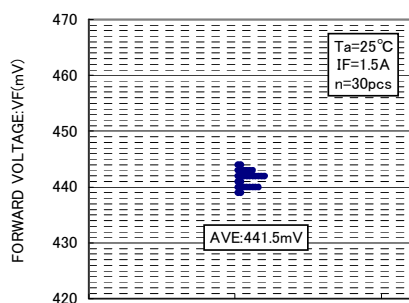
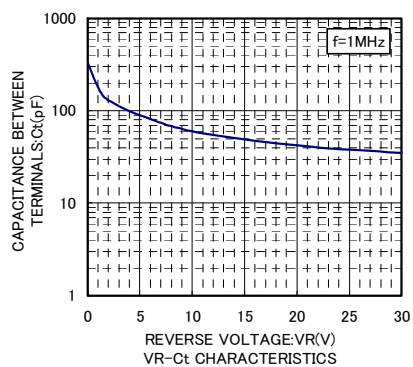
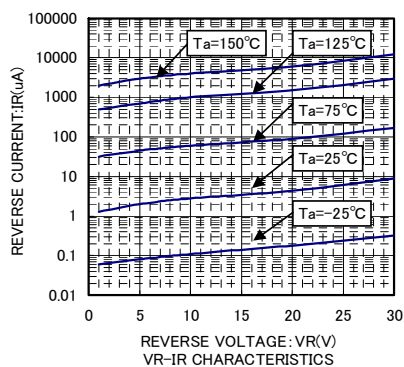
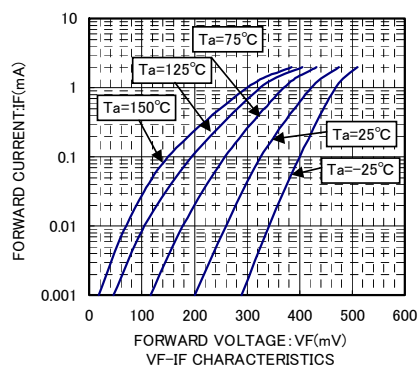
### ●Absolute maximum ratings (Ta=25°C)

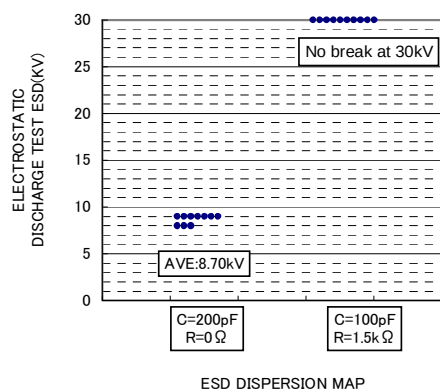
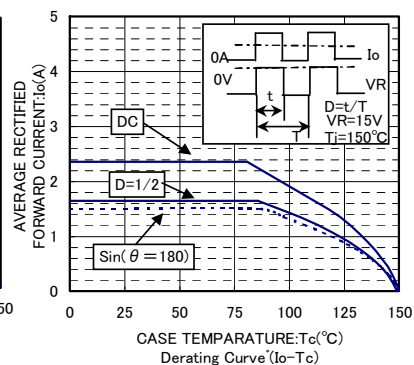
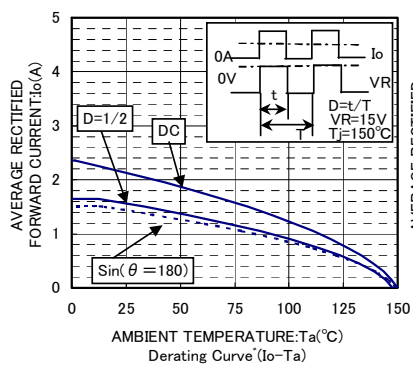
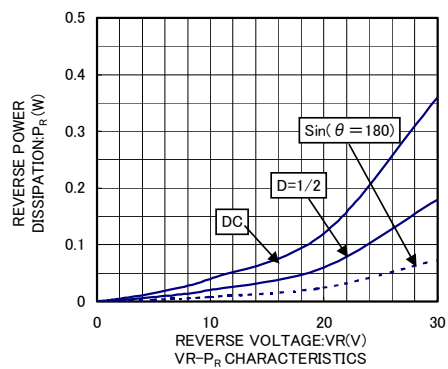
| Parameter                                | Symbol    | Limits      | Unit |
|------------------------------------------|-----------|-------------|------|
| Reverse voltage (repetitive peak)        | $V_{RM}$  | 30          | V    |
| Reverse voltage (DC)                     | $V_R$     | 30          | V    |
| Average rectified forward current (*1)   | $I_o$     | 1.5         | A    |
| Forward current surge peak (60Hz · 1cyc) | $I_{FSM}$ | 30          | A    |
| Junction temperature                     | $T_j$     | 150         | °C   |
| Storage temperature                      | $T_{stg}$ | -40 to +150 | °C   |

(\*1) Mounted on epoxy board. 180° Half sine wave

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

| Parameter       | Symbol   | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------|------|------|------|------|------------|
| Forward voltage | $V_{F1}$ | -    | 0.37 | 0.43 | V    | $I_F=0.5A$ |
|                 | $V_{F2}$ | -    | 0.44 | 0.49 | V    | $I_F=1.5A$ |
| Reverse current | $I_R$    | -    | 9.0  | 50   | μA   | $V_R=30V$  |





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