

# Schottky Barrier Diode

## RSX101M-30

### ●Applications

General rectification

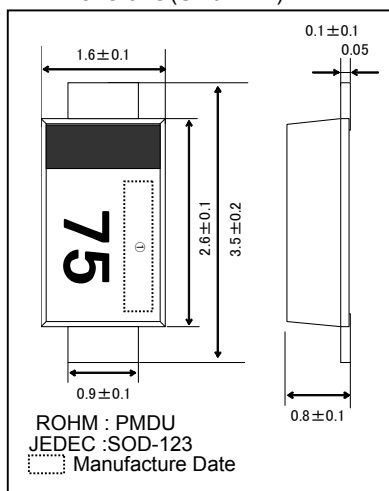
### ●Features

- 1) Small power mold type. (PMDU)
- 2) Low  $V_F$ , Low  $I_R$
- 3) High reliability

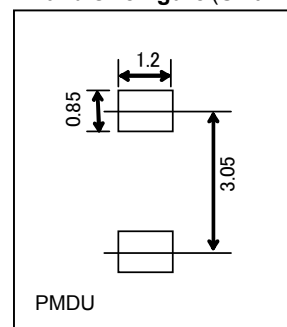
### ●Construction

Silicon epitaxial

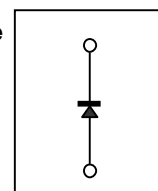
### ●Dimensions (Unit : mm)



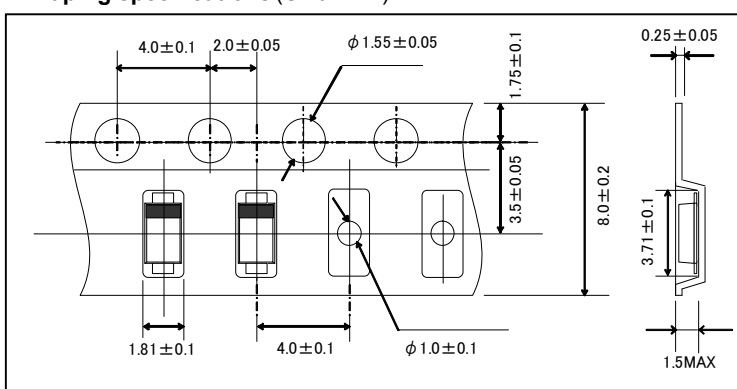
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



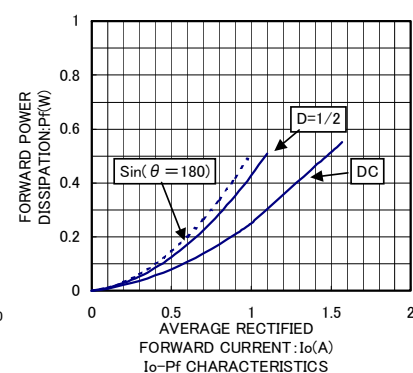
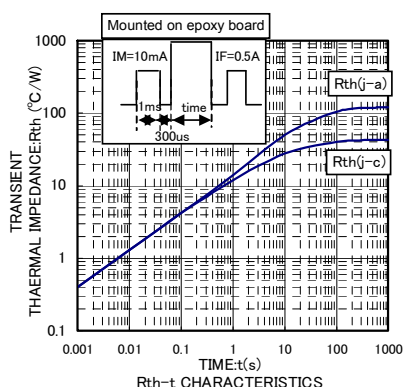
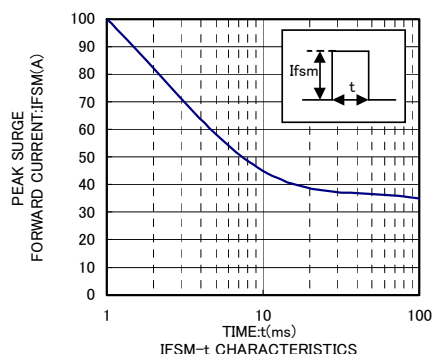
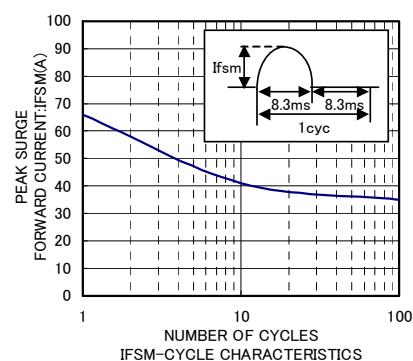
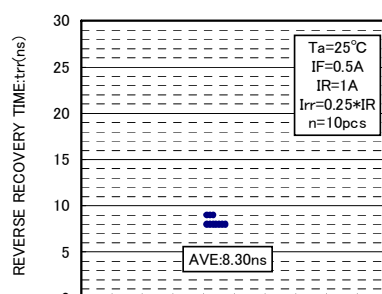
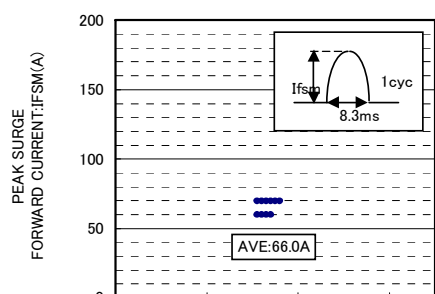
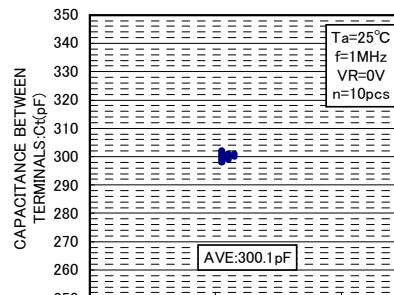
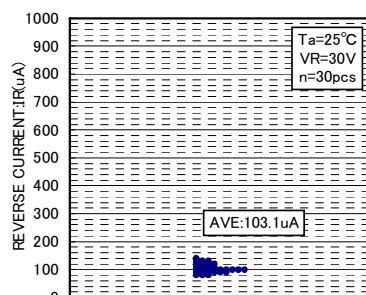
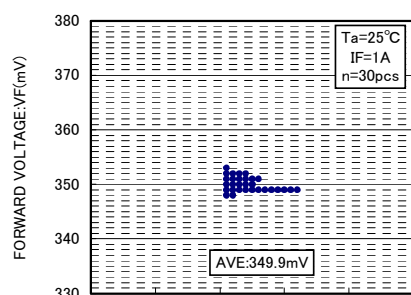
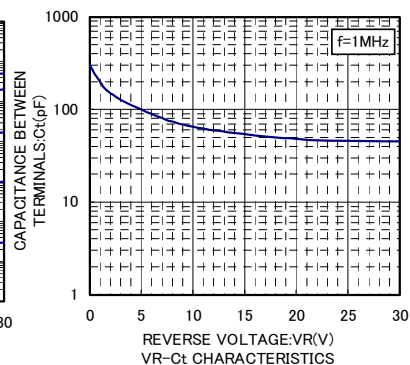
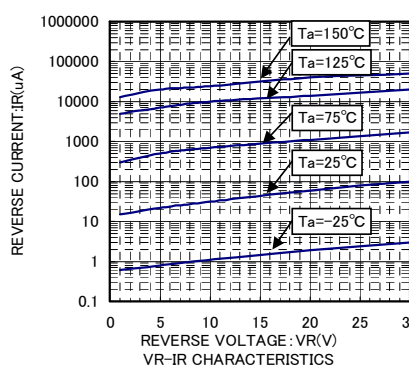
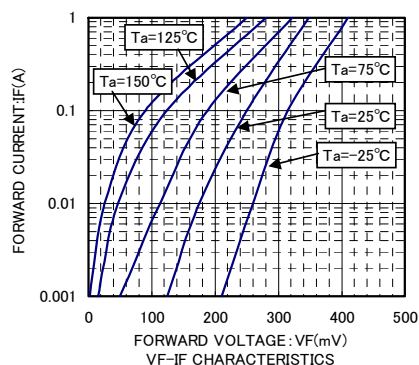
### ●Absolute maximum ratings (Ta=25°C)

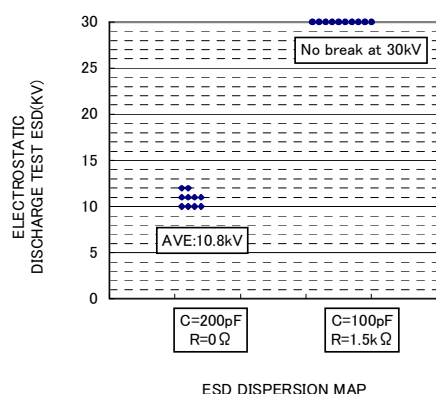
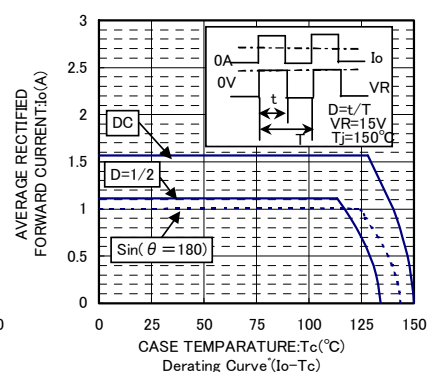
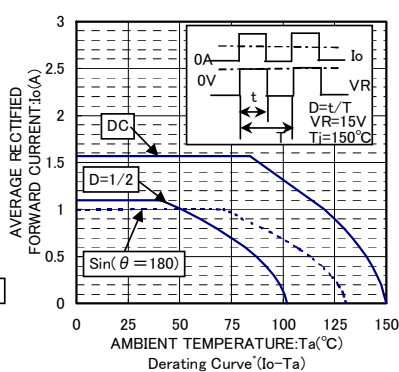
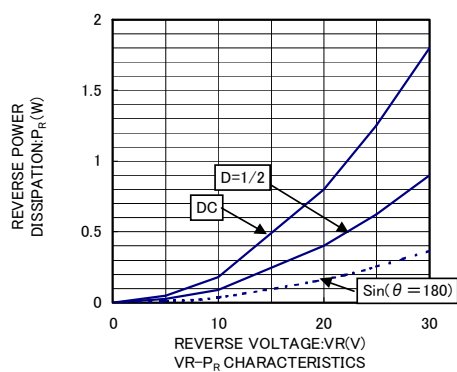
| Parameter                              | Symbol    | Limits      | Unit |
|----------------------------------------|-----------|-------------|------|
| Reverse voltage (repetitive)           | $V_{RM}$  | 30          | V    |
| Reverse voltage (DC)                   | $V_R$     | 30          | V    |
| Average rectified forward current      | $I_o$     | 1           | A    |
| Forward current surge peak (60Hz·1cyc) | $I_{FSM}$ | 45          | A    |
| Junction temperature                   | $T_j$     | 150         | °C   |
| Storage temperature                    | $T_{stg}$ | -40 to +150 | °C   |

(\*1) Mounting on epoxi board. 180° Half sine wave

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

| Parameter                     | Symbol | Min. | Typ. | Max. | Unit | Conditions           |
|-------------------------------|--------|------|------|------|------|----------------------|
| Forward voltage               | $V_F$  | -    | 0.35 | 0.39 | V    | $I_F=1A$             |
| Reverse current               | $I_R$  | -    | 90   | 200  | μA   | $V_R=30V$            |
| Capacitance between terminals | $C_t$  | -    | 60.0 | -    | pF   | $V_R=10V, f=1MHz$    |
| ESD breakdown voltage         | ESD    | -    | 12.0 | -    | kV   | $C=200pF, R=0\Omega$ |





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