

Schottky Barrier Diode

RB168M150

●Applications

General rectification

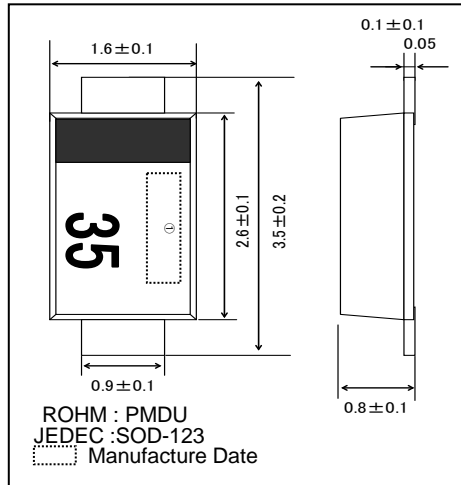
●Features

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

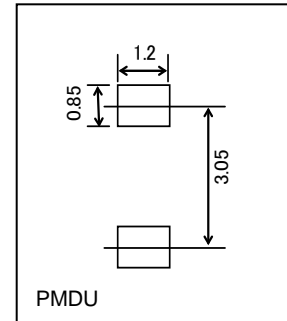
●Construction

Silicon epitaxial planer

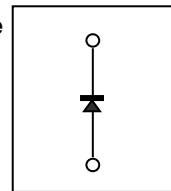
●Dimensions (Unit : mm)



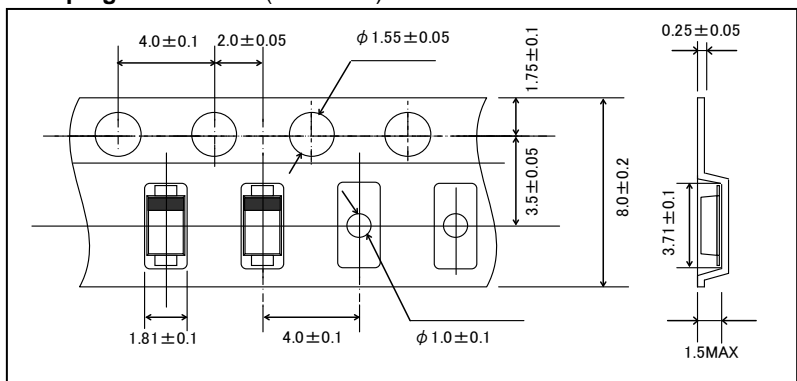
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



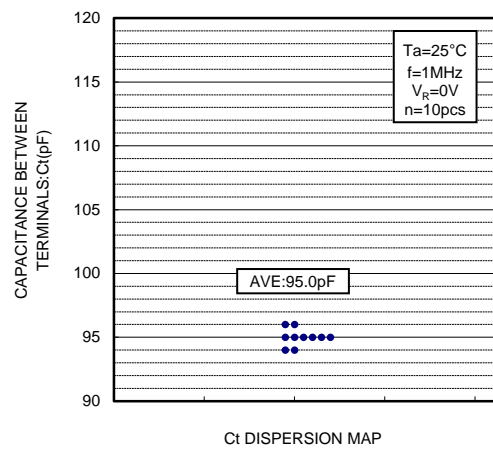
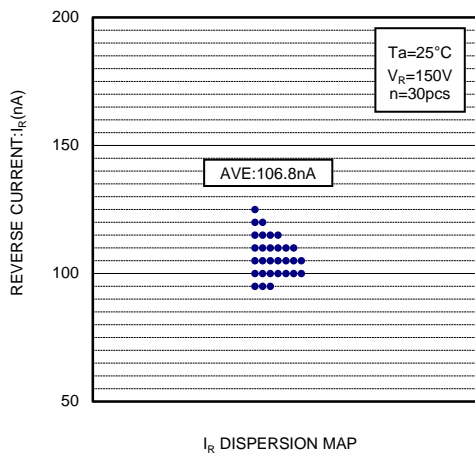
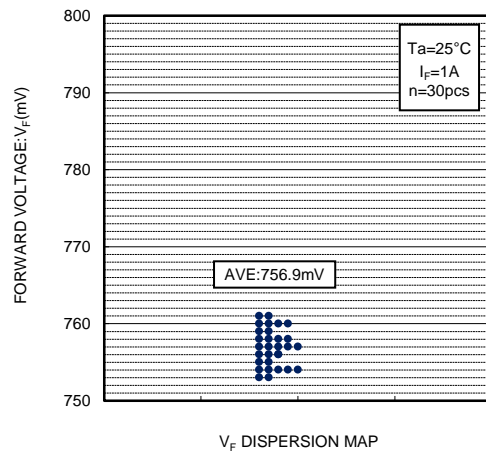
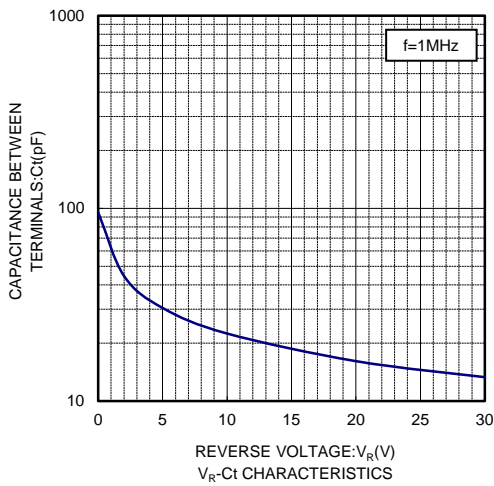
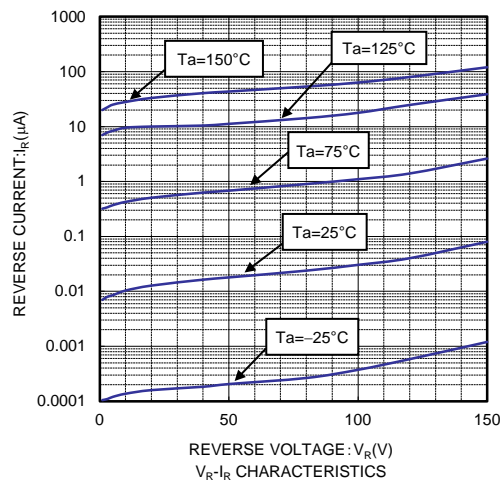
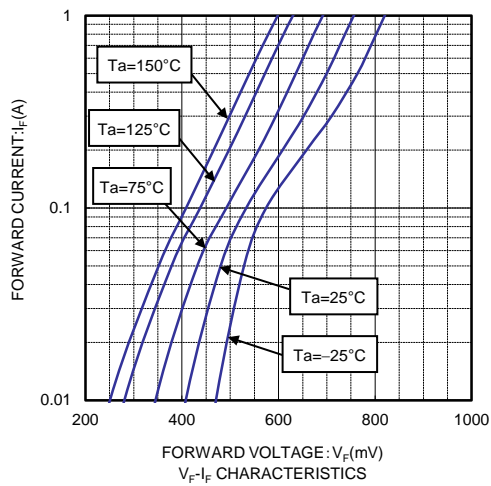
●Absolute maximum ratings (Ta=25°C)

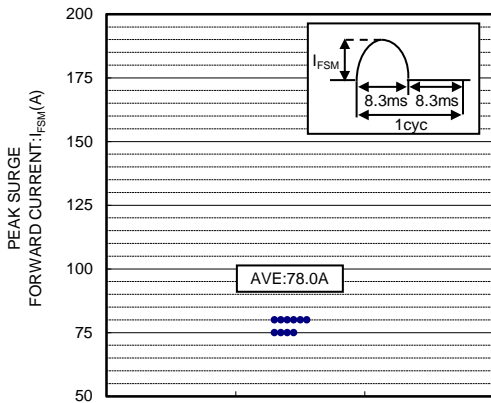
| Parameter | Symbol | Limits | Unit |
|--|-----------|--------------|------|
| Reverse voltage (repetitive) | V_{RM} | 150 | V |
| Reverse voltage (DC) | V_R | 150 | V |
| Average rectified forward current (*1) | I_o | 1 | A |
| Forward current surge peak (60Hz · 1cyc) | I_{FSM} | 30 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | - 55 to +150 | °C |

(*1) Business frequency, R-road, $T_c=110^\circ\text{C}$ max.

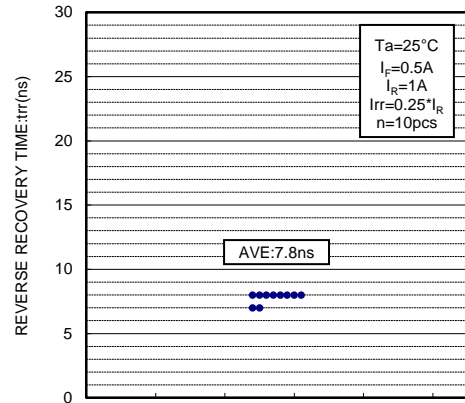
●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|---------------|-------------------|
| Forward voltage | V_F | - | 0.76 | 0.84 | V | $I_F=1\text{A}$ |
| Reverse current | I_R | - | 0.11 | 20 | μA | $V_R=150\text{V}$ |

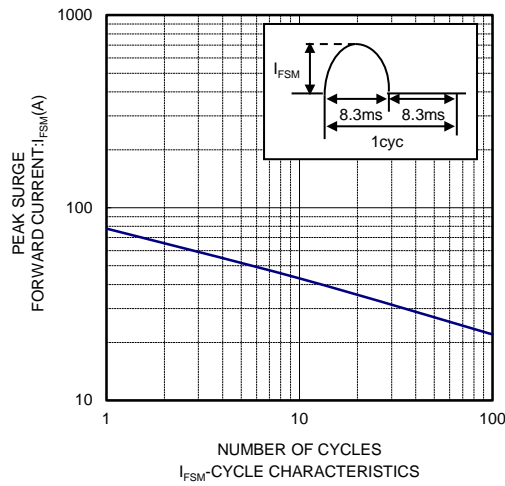




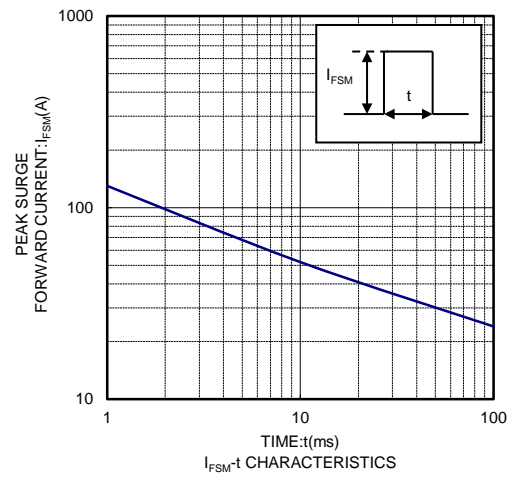
I_{FSM} DISPERSION MAP



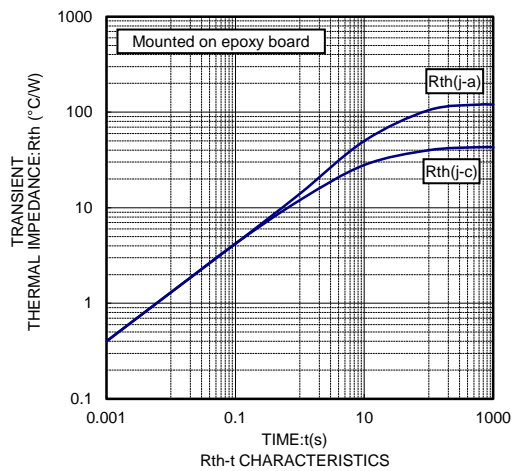
trr DISPERSION MAP



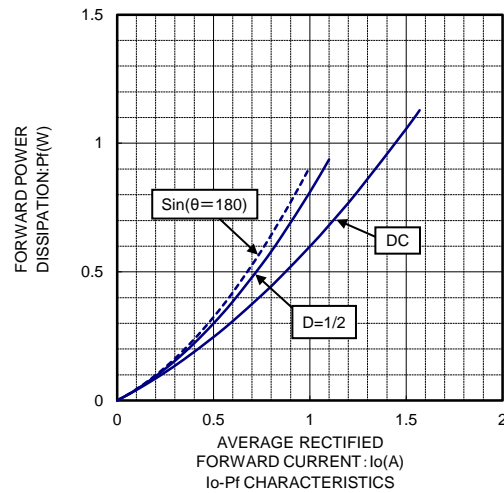
I_{FSM} CYCLE CHARACTERISTICS



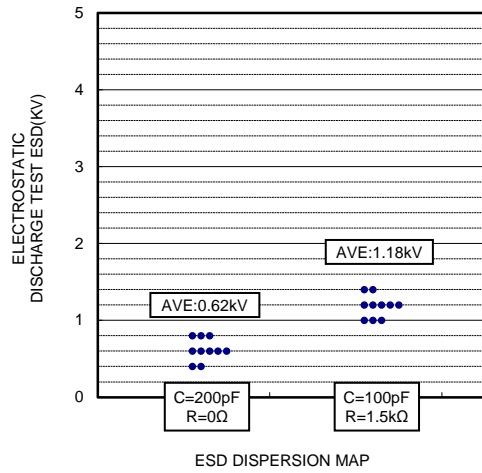
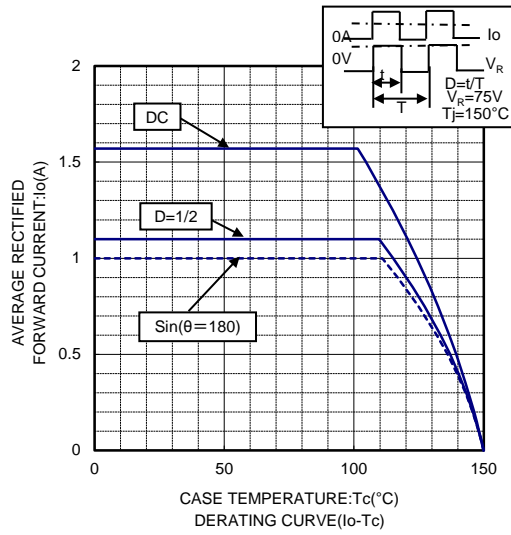
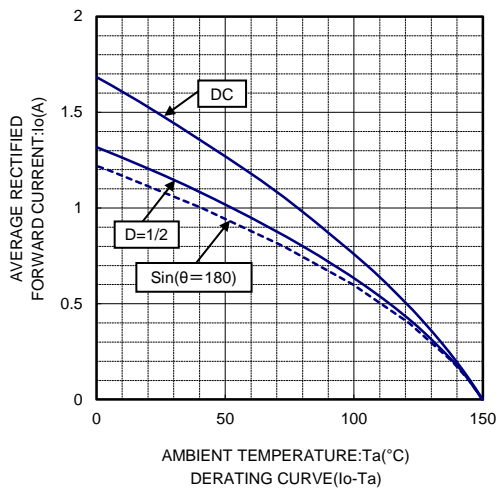
I_{FSM} -t CHARACTERISTICS



R_{th} -t CHARACTERISTICS



I_o -Pf CHARACTERISTICS



Notes

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