

Rectifier Diode

RR264M-400

●Applications

General rectification

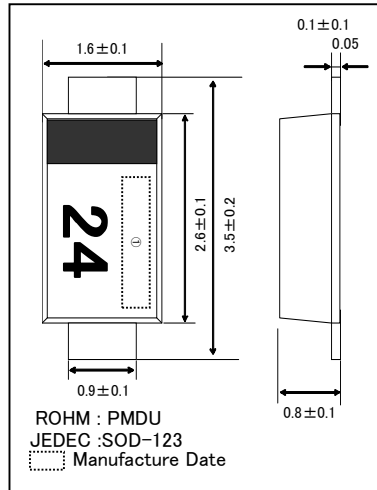
●Features

- 1) Small power mold type (PMDU)
- 2) High Reliability

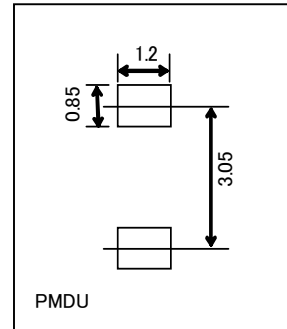
●Construction

Silicon diffused junction

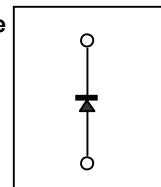
●Dimensions (Unit : mm)



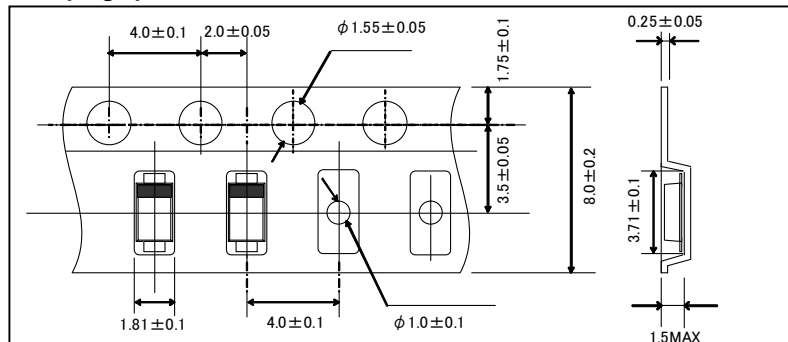
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

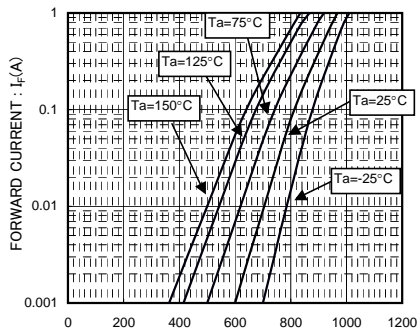
| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage(DC) | V_R | 400 | V |
| Forward current(DC) | I_F | 1 | A |
| Average rectified forward current(*1) | I_o | 0.7 | A |
| Forward current surge peak (60Hz/1cyc) | I_{FSM} | 25 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

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

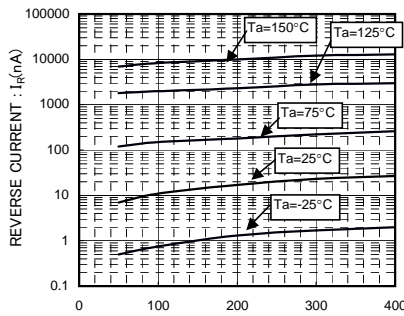
●Electrical characteristics(Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|------|------------|
| Forward voltage | V_F | - | - | 1.1 | V | $I_F=0.7A$ |
| Reverse current | I_R | - | - | 10 | uA | $V_R=400V$ |

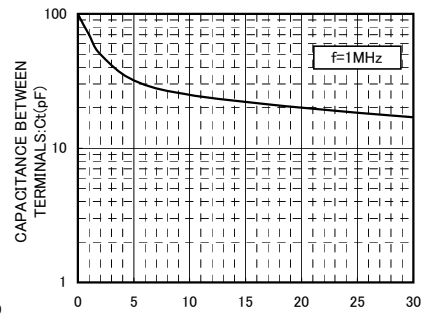
●Electrical characteristics curves



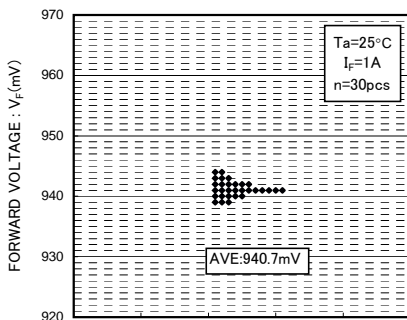
FORWARD VOLTAGE : V_f (mV)
 V_f - I_f CHARACTERISTICS



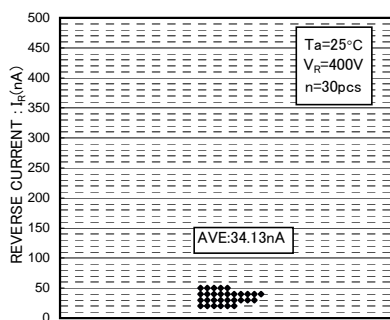
REVERSE VOLTAGE : V_r (V)
 V_r - I_r CHARACTERISTICS



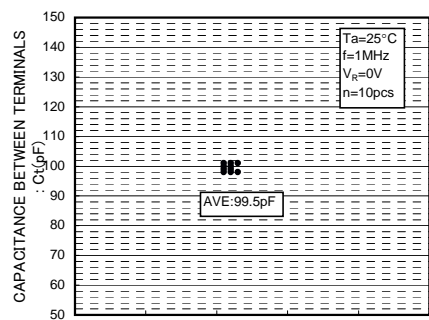
REVERSE VOLTAGE : V_r (V)
 V_r - C_t CHARACTERISTICS



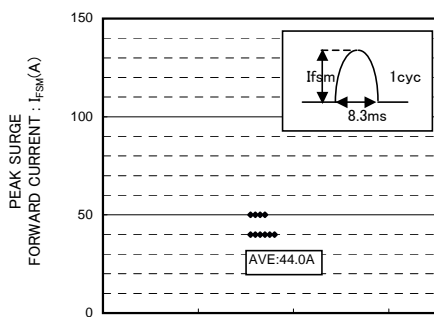
V_f DISPERSION MAP



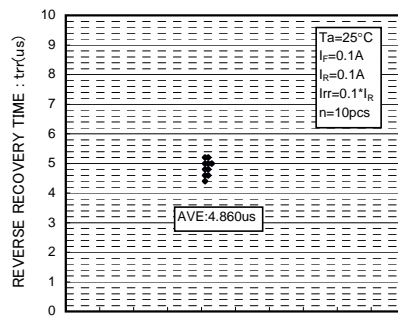
I_r DISPERSION MAP



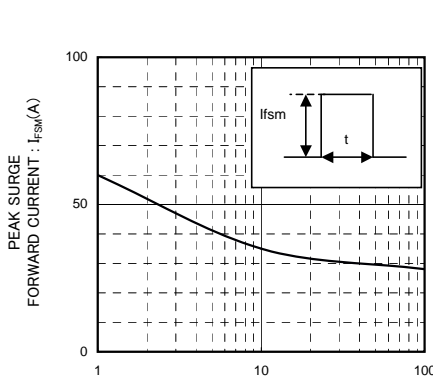
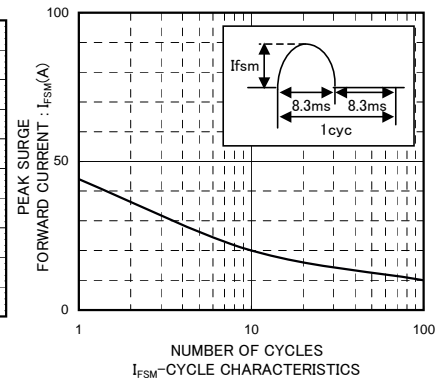
C_t DISPERSION MAP



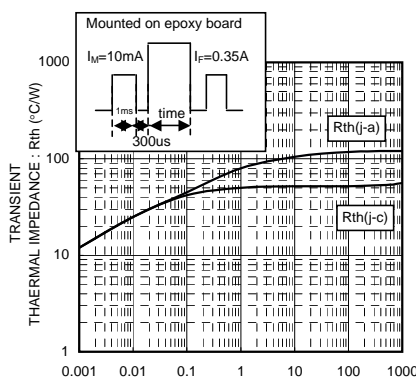
I_{FSM} DISPERSION MAP



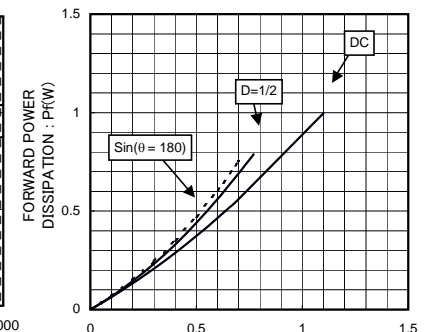
t_{rr} DISPERSION MAP



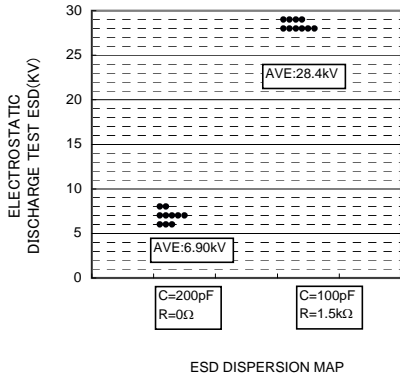
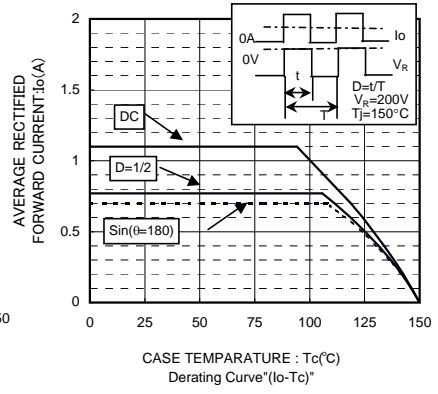
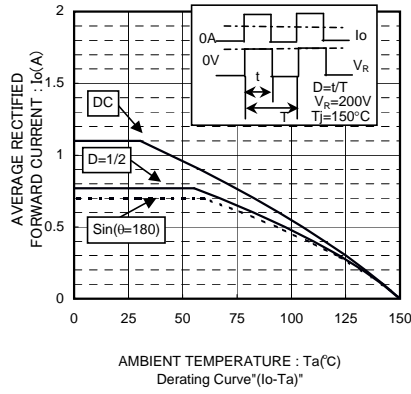
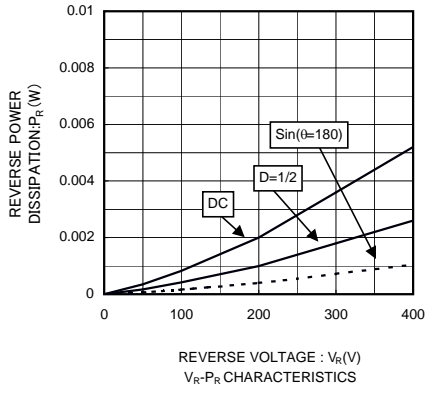
TIME : t (ms)
 I_{FSM} - t CHARACTERISTICS



TIME : t (s)
 R_{th} - t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT : I_o (A)
 I_o - P CHARACTERISTICS



Notes

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