

Schottky Barrier Diode

RB551SS-30

●Applications

General Rectification

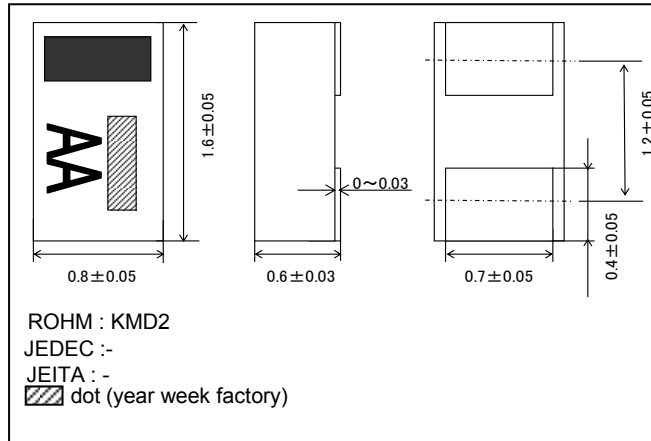
●Features

- 1) Small mold type (KMD2)
- 2) High reliability
- 3) Low V_F

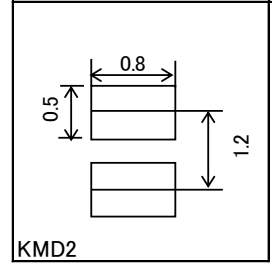
●Construction

Silicon epitaxial planer

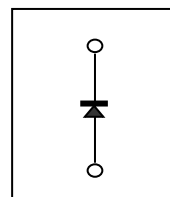
●Dimensions (Unit : mm)



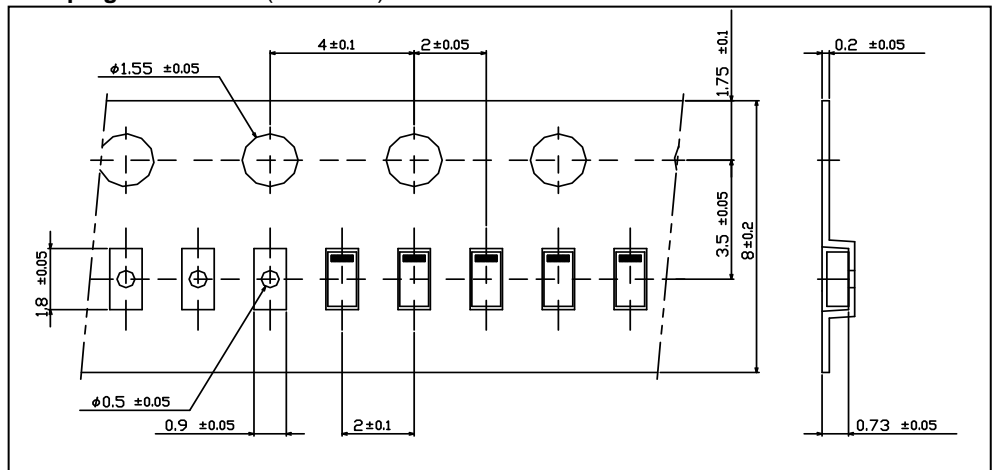
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

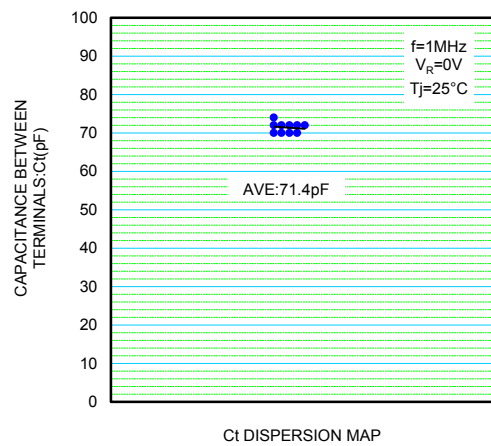
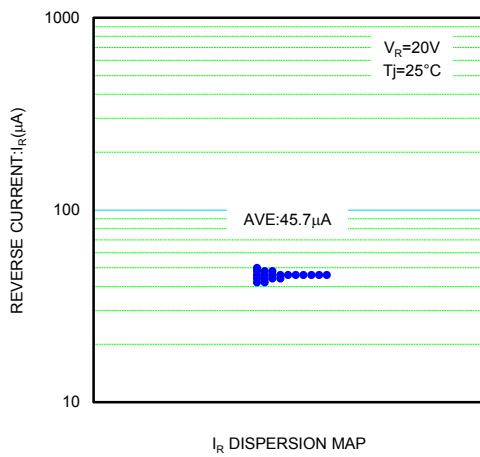
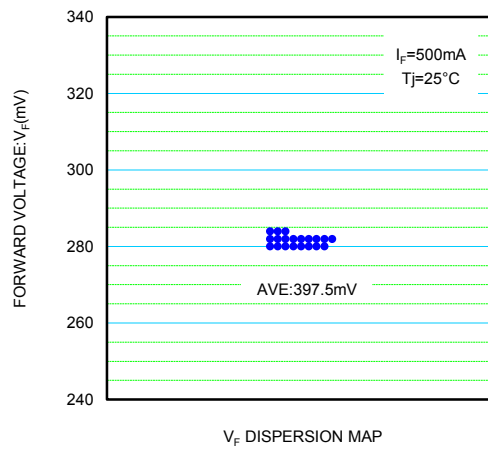
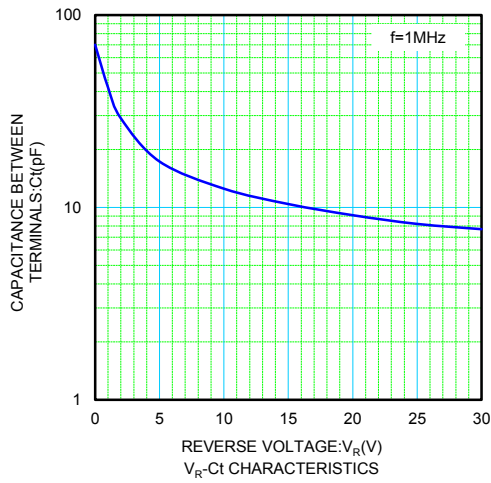
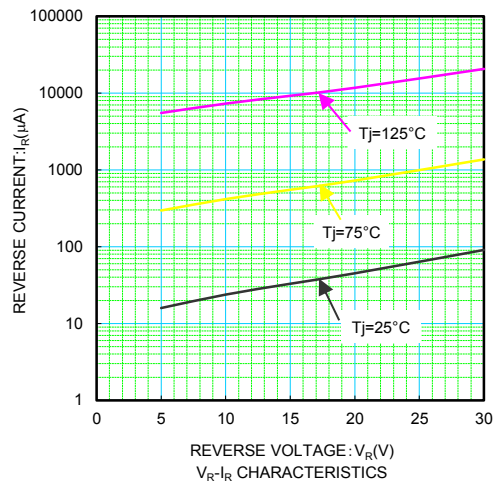
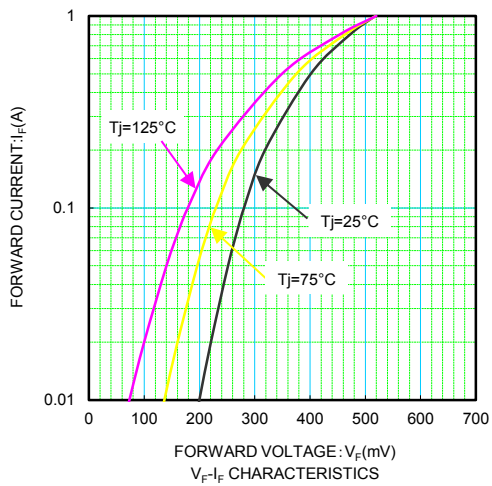


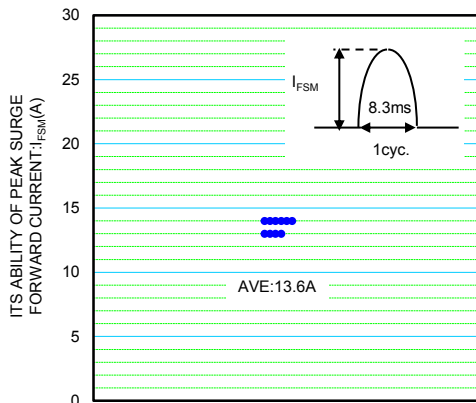
●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 30 | V |
| Reverse voltage (DC) | V_R | 20 | V |
| Average rectified forward current | I_o | 0.5 | A |
| Forward current surge peak(60Hz·1cyc.) | I_{FSM} | 5 | A |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -40 to +125 | °C |

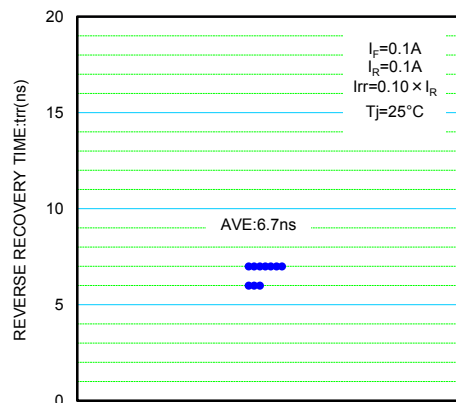
●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------|------|------|------|------|-------------|
| Forward voltage | V_{F1} | - | - | 0.36 | V | $I_F=100mA$ |
| | V_{F2} | - | - | 0.47 | V | $I_F=500mA$ |
| Reverse current | I_R | - | - | 100 | μA | $V_R=20V$ |

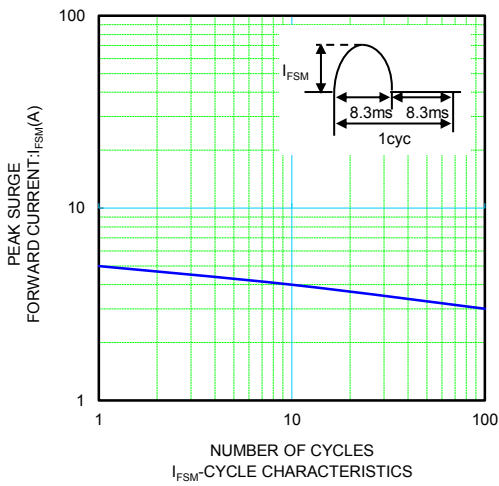




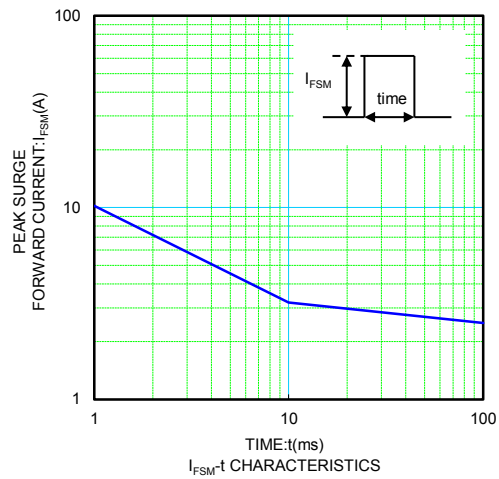
I_{FSM} DISPERSION MAP



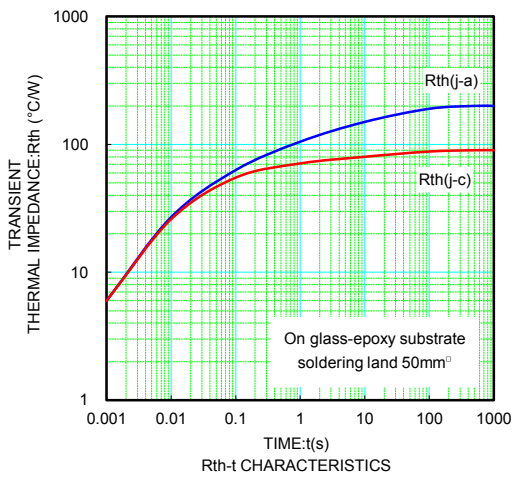
t_{rr} DISPERSION MAP



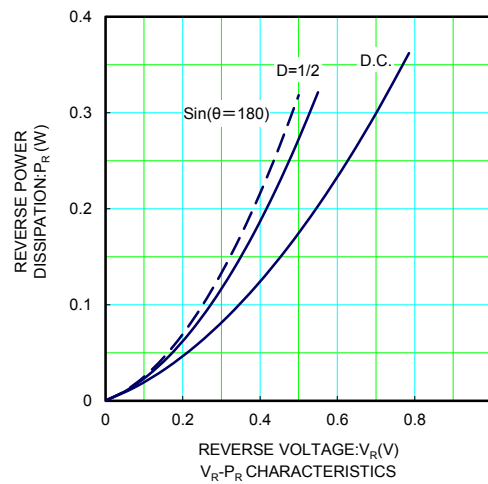
I_{FSM} -CYCLE CHARACTERISTICS



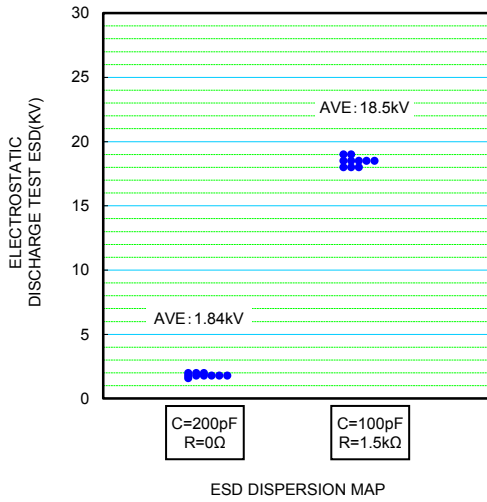
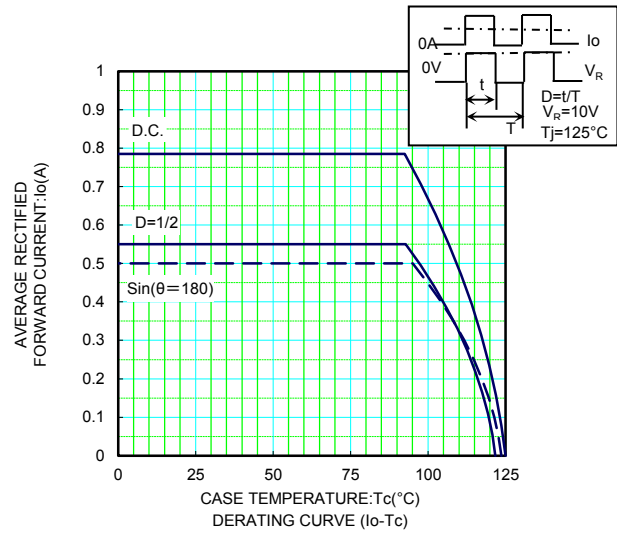
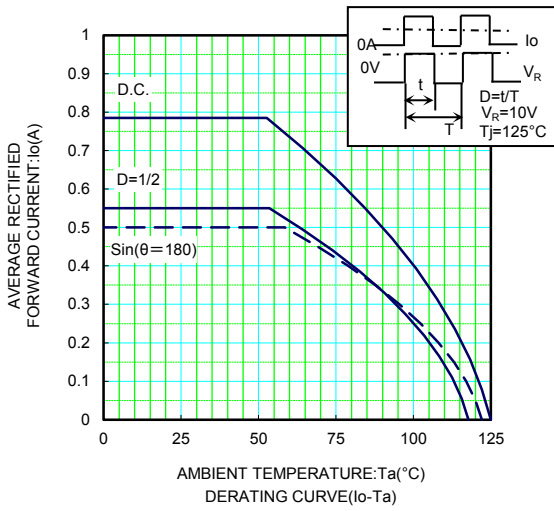
I_{FSM} - t CHARACTERISTICS



R_{th} - t CHARACTERISTICS



V_R - P_R CHARACTERISTICS



Notes

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