

# Schottky Barrier Diode

RB751SM-40

●Applications

High speed switching

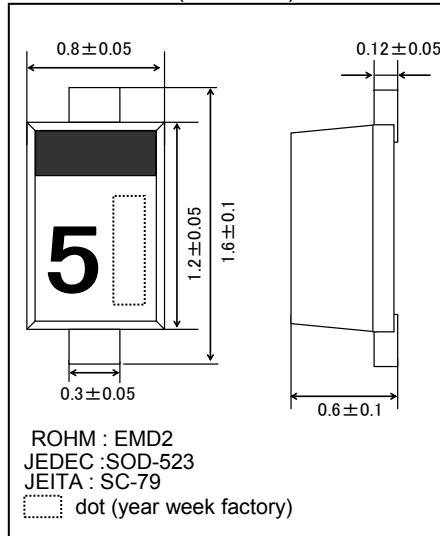
●Features

- 1) Ultra small mold type. (EMD2)
- 2) High reliability

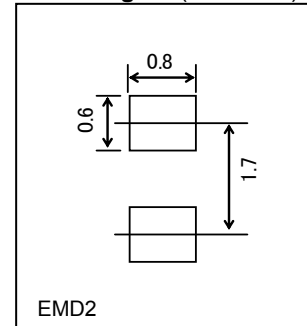
●Construction

Silicon epitaxial

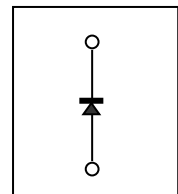
●Dimensions (Unit : mm)



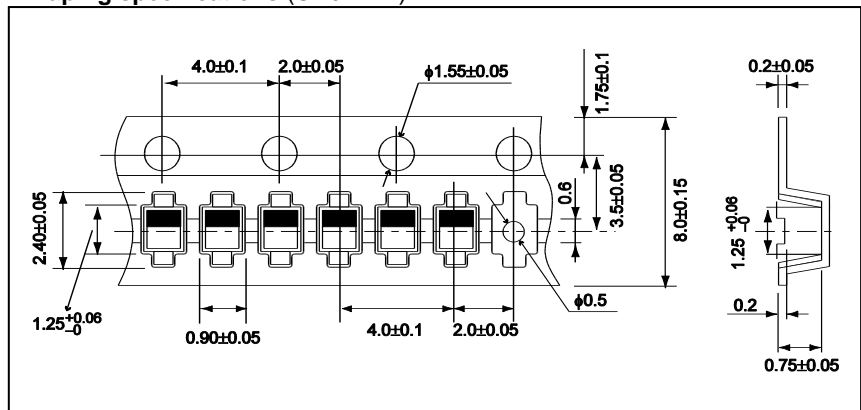
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

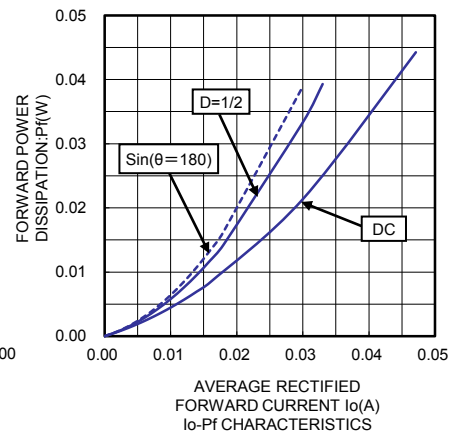
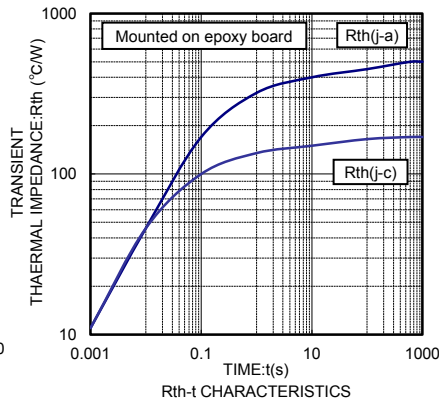
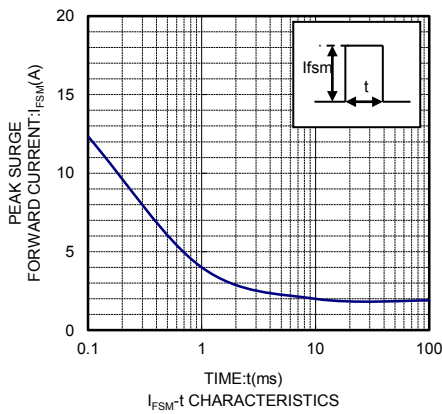
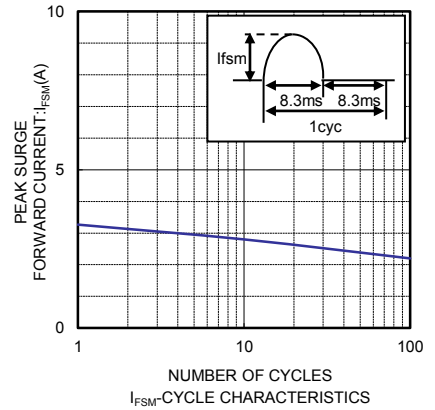
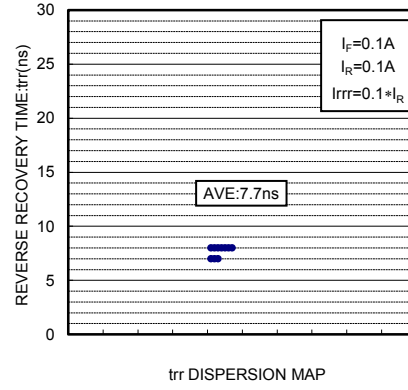
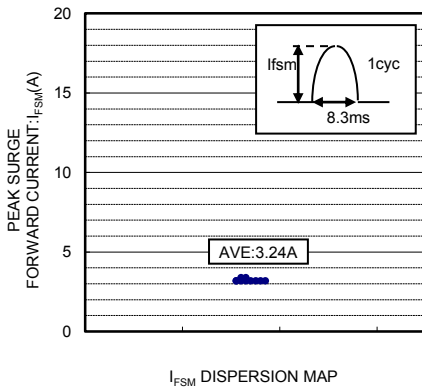
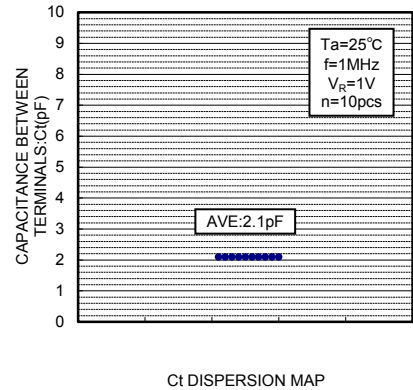
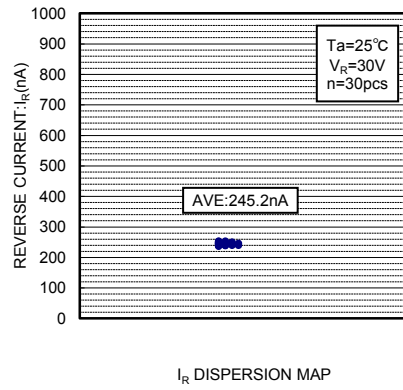
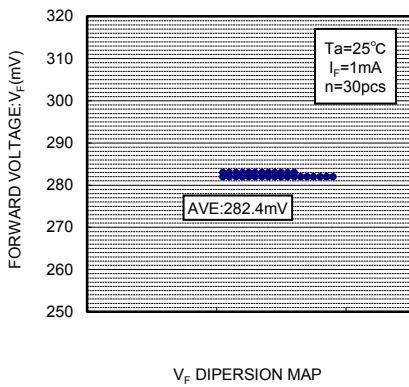
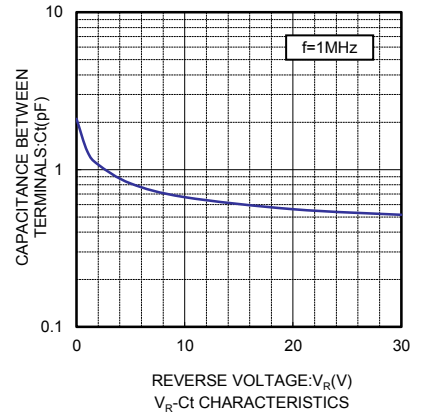
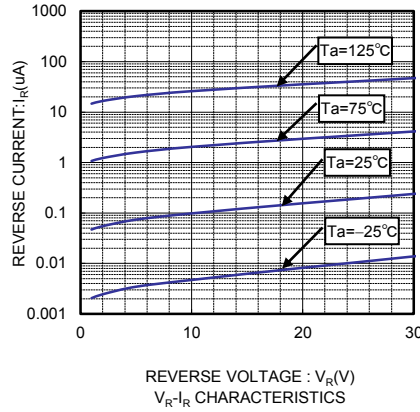
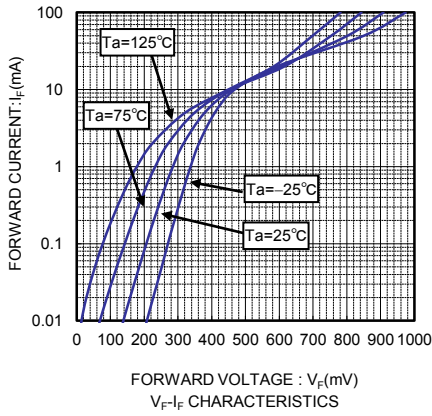


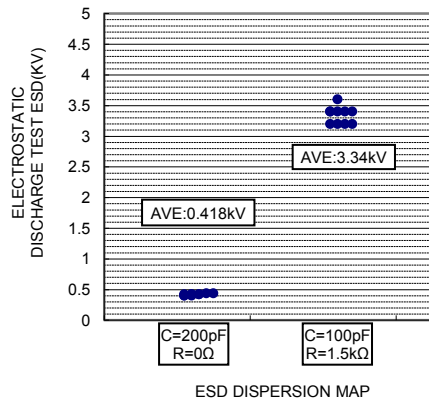
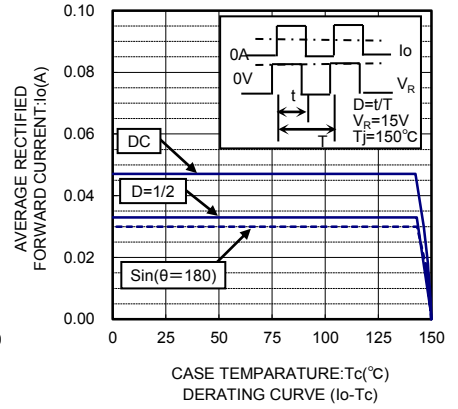
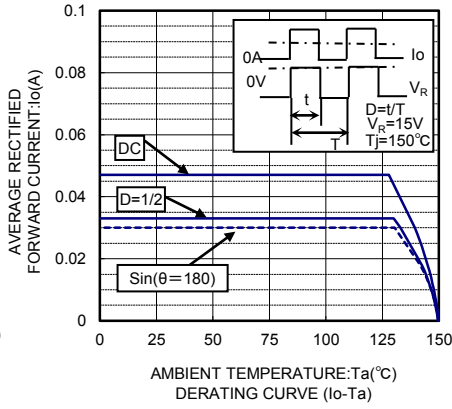
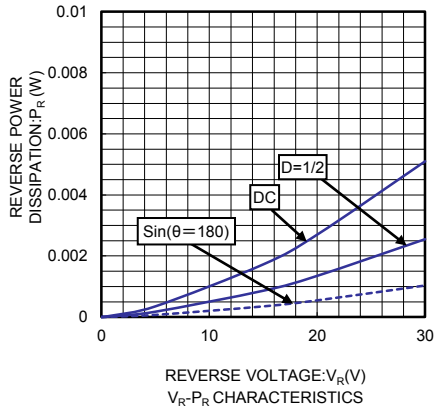
●Absolute maximum ratings (Ta=25°C)

| Parameter                                | Symbol    | Limits      | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive)             | $V_{RM}$  | 40          | V    |
| Reverse voltage (DC)                     | $V_R$     | 30          | V    |
| Average rectified forward current        | $I_o$     | 30          | mA   |
| Forward current surge peak (60Hz · 1cyc) | $I_{FSM}$ | 200         | mA   |
| Junction temperature                     | $T_j$     | 150         | °C   |
| Storage temperature                      | $T_{stg}$ | -40 to +150 | °C   |

●Electrical characteristics (Ta=25°C)

| Parameter                     | Symbol | Min. | Typ. | Max. | Unit | Conditions       |
|-------------------------------|--------|------|------|------|------|------------------|
| Forward voltage               | $V_F$  | -    | -    | 0.37 | V    | $I_F=1mA$        |
| Reverse current               | $I_R$  | -    | -    | 0.5  | μA   | $V_R=30V$        |
| Capacitance between terminals | $C_t$  | -    | 2    | -    | pF   | $V_R=1V, f=1MHz$ |





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