

Schottky barrier diode

RB751CS-40

● Applications

Low current rectification

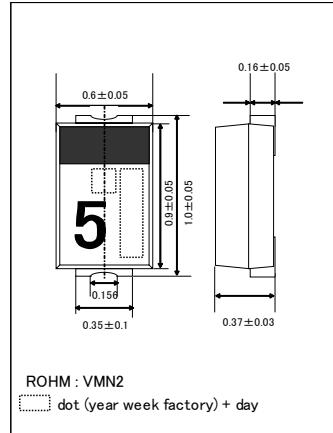
● Features

- 1) Ultra Small mold type(VMN2)
- 2) Low V_F
- 3) High reliability

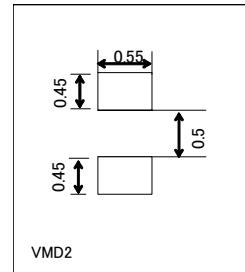
● Structure

Silicon epitaxial planer

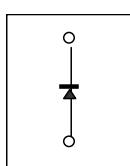
● External dimensions (Unit : mm)



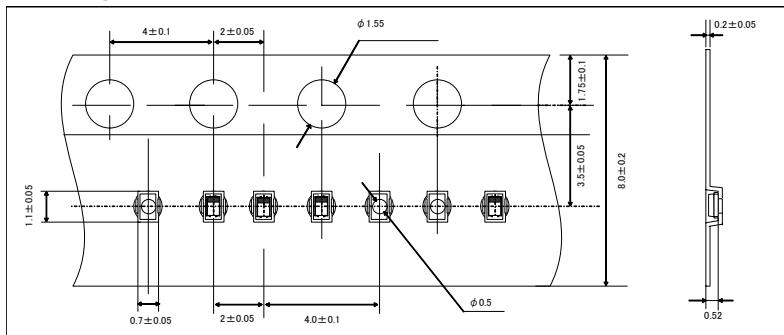
● Land size figure (Unit : mm)



● Structure



● Taping dimensions (Unit : mm)



● Absolute maximum ratings ($T_a=25^\circ C$)

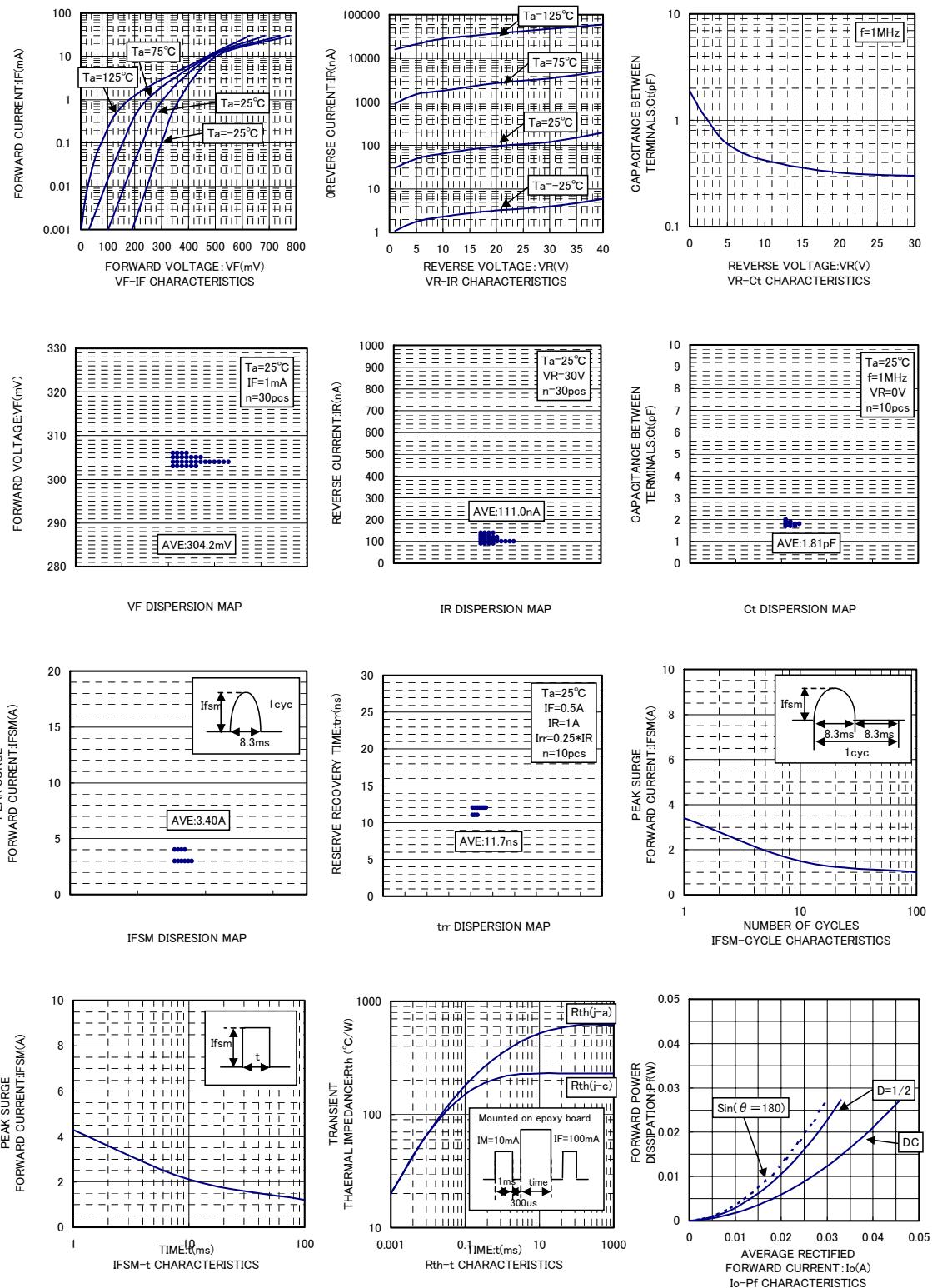
| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 40 | V |
| Reverse voltage (DC) | V_R | 30 | V |
| Average rectified forward current | I_o | 30 | mA |
| Forward current surge peak (60Hz·1cyc) | I_{FSM} | 200 | mA |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{Stg} | -40 to +125 | °C |

● Electrical characteristic ($T_a=25^\circ C$)

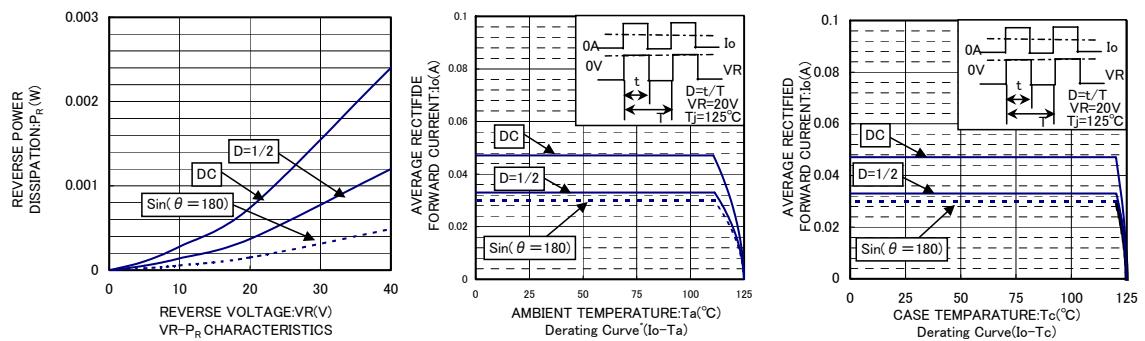
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|--------|------|------|------|---------------|-----------------------------------|
| Forward voltage | V_F | - | | 0.37 | V | $I_F=1\text{mA}$ |
| Reverse current | I_R | - | | 0.5 | μA | $V_R=30\text{V}$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

Diodes

● Electrical characteristic curves



Diodes



Appendix

Notes

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