

Schottky barrier diode

RB160L-40

●Applications

High frequency rectification
For switching power supply.

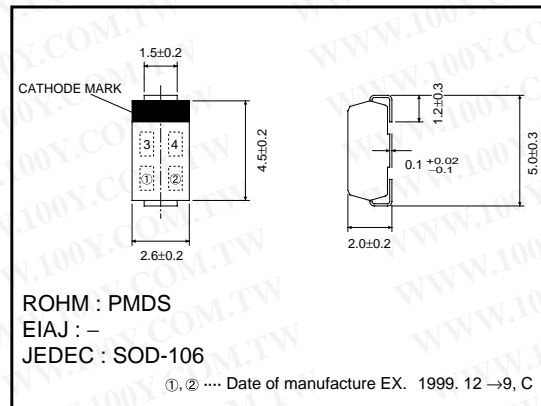
●Features

- 1) Compact power mold type (PMDS)
- 2) Low I_R . ($I_R=5mA$ Typ.)
- 3) High reliability

●Construction

Silicon epitaxial Planar

●External dimensions (Units : mm)



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

| Parameter | Symbol | Limits | Unit |
|----------------------------|-----------|----------|------------|
| Peak reverse voltage | V_{RM} | 40 | V |
| DC reverse voltage | V_R | 40 | V |
| Mean rectifying current * | I_o | 1 | A |
| Peak forward surge current | I_{FSM} | 70 | A |
| Junction temperature | T_j | 125 | $^\circ C$ |
| Storage temperature | T_{stg} | -40~+125 | $^\circ C$ |

*When mounted on a PCBs board

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

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|------|--------------|
| Forward voltage | V_F | - | - | 0.55 | V | $I_F = 1.0A$ |
| Reverse current | I_R | - | - | 0.1 | mA | $V_R = 40V$ |

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Diodes

●Electrical characteristic curves (Ta = 25°C)

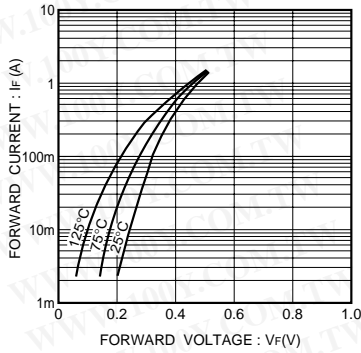


Fig. 1 Forward characteristics

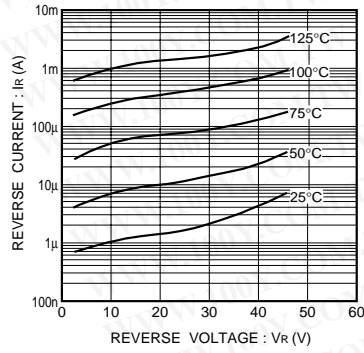


Fig. 2 Reverse characteristics

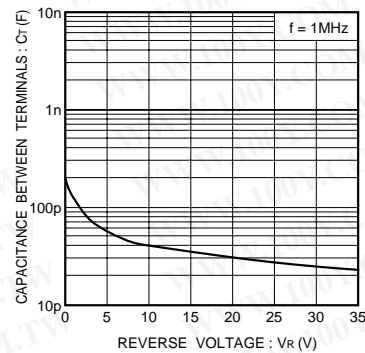


Fig. 3 Capacitance between terminals characteristics

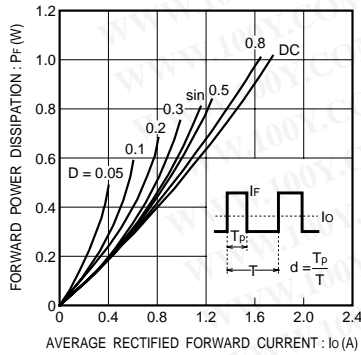


Fig. 4 Forward power dissipation characteristics

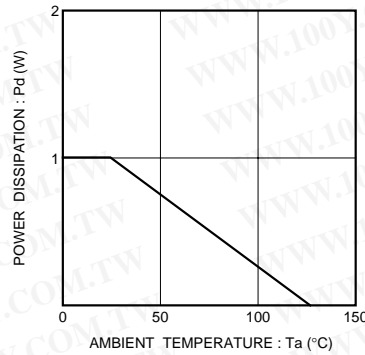


Fig. 5 Derating curve

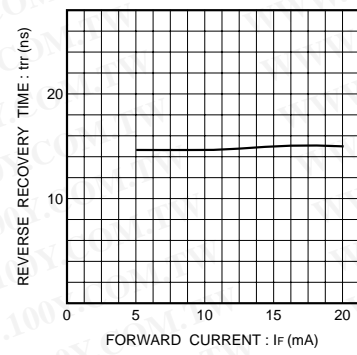


Fig. 6 Reverse recovery time characteristics

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Appendix

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