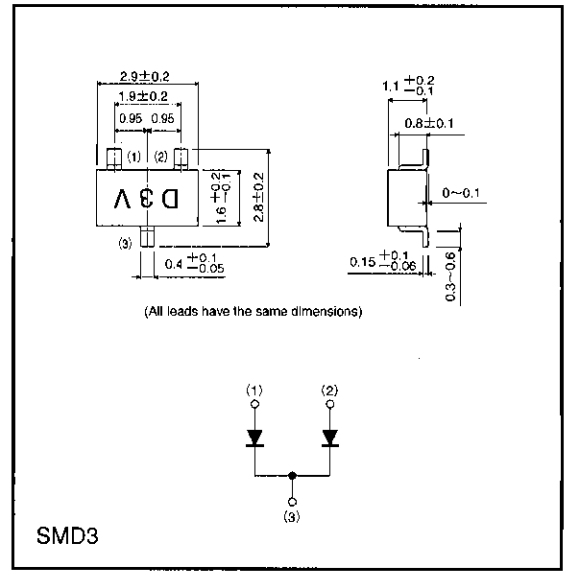
# Schottky Barrier Diode
## RB415D

●Applications
Low current rectification (cathode common twin model)

●Features
1)Compact mold model (SMD3)
2)High reliability
3)Two diodes with common cathode for excellent installation efficiency.

●Construction
Silicon epitaxial

●External dimensions (Units: mm)




SMD3

●Absolute maximum ratings (Ta=25℃)

| Parameter | Symbol | Limits | Unit |
|---|---|---|---|
| Peak reverse voltage | $V_{RM}$ | 40 | V |
| DC reverse voltage | $V_R$ | 25 | V |
| Mean rectifying current *1 | $I_O$ | 0.4 | A |
| Peak forward surge current *2 | $I_{FSM}$ | 2 | A |
| Junction temperature | Tj | 125 | ℃ |
| Storage temperature | Tstg | −40～+125 | ℃ |
| Operating temperature | Topr | −30～+85 | ℃ |

*1 Mean output current per element: $I_O/2$
*2 60 Hz for 1 ⌁

●Electrical characteristics (Ta=25℃)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---|---|---|---|---|---|---|
| Forward voltage | $V_{F\ (1)}$ | − | 0.24 | 0.30 | V | $I_F$=100mA |
| | $V_{F\ (2)}$ | − | 0.38 | 0.50 | V | $I_F$=200mA |
| Reverse current | $I_R$ | − | 18 | 70 | μA | $V_R$=25V |

* Special precautions required concerning static electricity when being handled.

●Electrical characteristic curves (Ta=25℃)

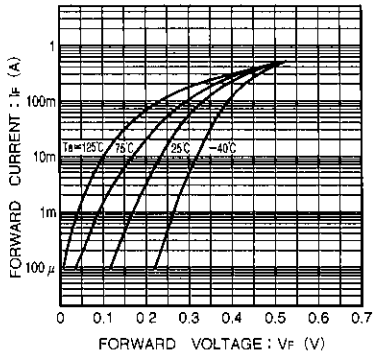



Fig. 1 Forward temperature characteristic

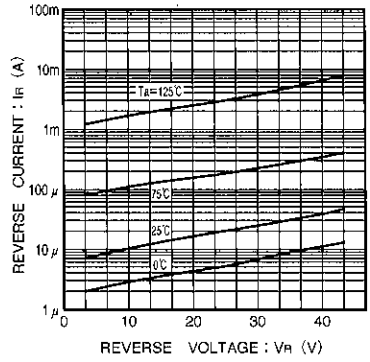



Fig. 2 Reverse temperature characteristic

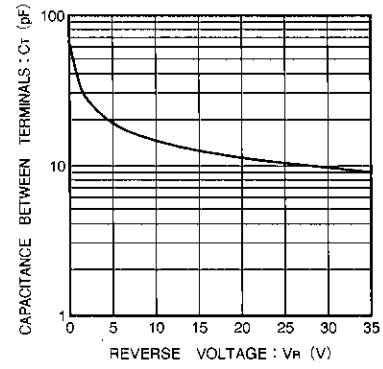



Fig. 3 Capacitance between terminals characteristic

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