

# Schottky barrier diode

## RB400D

### ●Applications

High frequency rectification  
Switching power supply

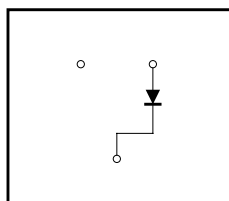
### ●Features

- 1) Small surface mounting type. (SMD3)
- 2) Low  $I_R$ . ( $I_R=1\mu A$  Typ.)
- 3) High reliability.

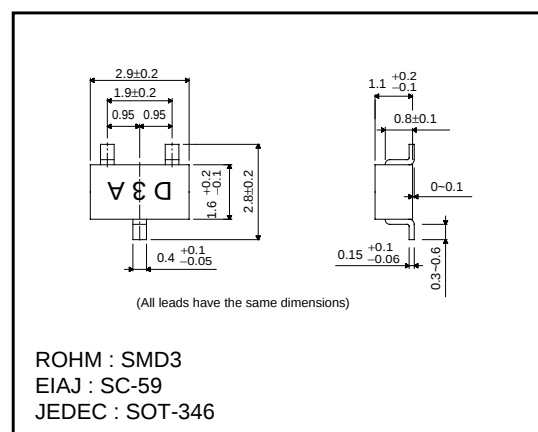
### ●Construction

Silicon epitaxial planar

### ●Circuit



### ●External dimensions (Units : mm)



### ●Absolute maximum ratings (Ta = 25°C)

| Parameter                  | Symbol    | Limits   | Unit |
|----------------------------|-----------|----------|------|
| Peak reverse voltage       | $V_{RM}$  | 40       | V    |
| DC reverse voltage         | $V_R$     | 40       | V    |
| Mean rectifying current    | $I_o$     | 0.5      | A    |
| Peak forward surge current | $I_{FSM}$ | 3        | A    |
| Junction temperature       | $T_j$     | 125      | °C   |
| Storage temperature        | $T_{stg}$ | -40~+125 | °C   |

### ●Electrical characteristics (Ta = 25°C)

| Parameter                     | Symbol   | Min. | Typ. | Max. | Unit    | Conditions        |
|-------------------------------|----------|------|------|------|---------|-------------------|
| Forward voltage               | $V_F$    | —    | —    | 0.55 | V       | $I_F=0.5A$        |
| Reverse current               | $I_{R1}$ | —    | —    | 50   | $\mu A$ | $V_R=30V$         |
|                               | $I_{R2}$ | —    | —    | 30   | $\mu A$ | $V_R=10V$         |
| Capacitance between terminals | $C_t$    | —    | 125  | —    | pF      | $V_R=0V, f=1MHz$  |
|                               | $C_t$    | —    | 20   | —    | pF      | $V_R=10V, f=1MHz$ |

Note) ESD Sensitive product handling required.

## Diodes

●Electrical characteristic curves ( $T_a = 25^\circ\text{C}$ )