

# Shottky barrier diode

## RB491D

### ●Application

Low current rectification

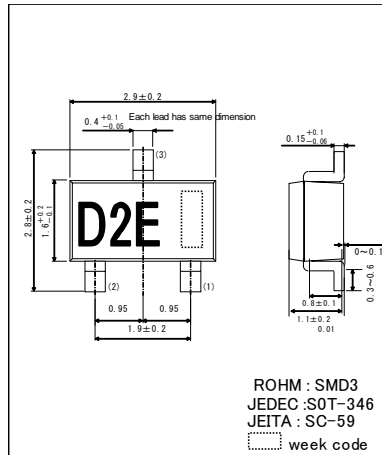
### ●Features

- 1) Small mold type. (SMD3)
- 2) Low  $I_R$
- 3) High reliability.

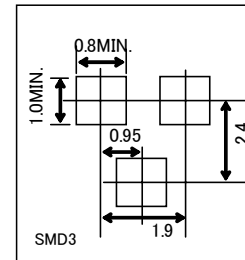
### ●Structure

Silicon epitaxial planar

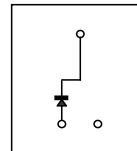
### ●External dimensions (Unit : mm)



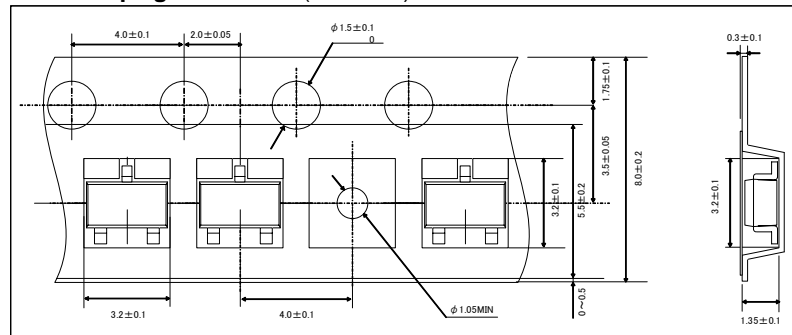
### ●Lead size figure (Unit : mm)



### ●Structure



### ●Taping dimensions (Unit : mm)



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

| Parameter                                    | Symbol    | Limits      | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak)            | $V_{RM}$  | 25          | V    |
| Reverse voltage (DC)                         | $V_R$     | 20          | V    |
| Average rectified forward current (*1)       | $I_o$     | 1           | A    |
| Forward current surge peak (60Hz · 1cyc)(*1) | $I_{FSM}$ | 3           | A    |
| Junction temperature                         | $T_j$     | 125         | °C   |
| Storage temperature                          | $T_{stg}$ | -40 to +125 | °C   |

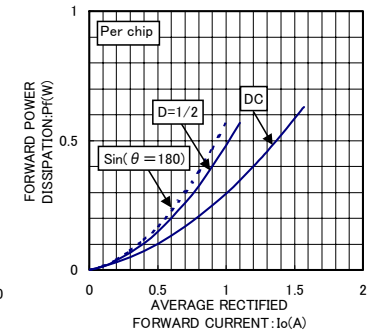
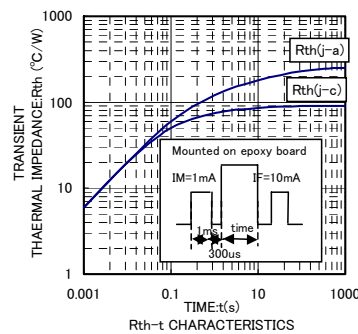
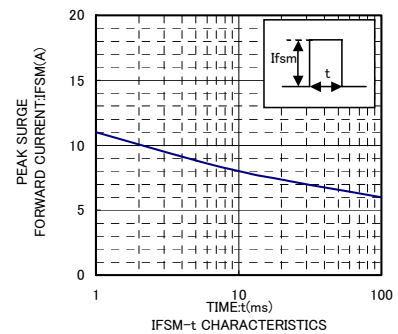
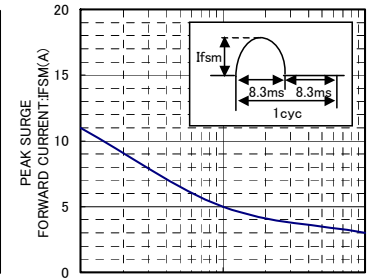
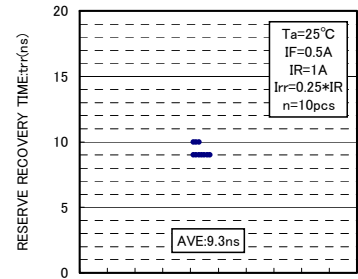
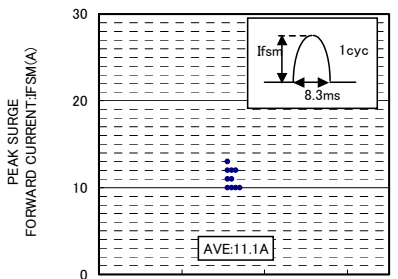
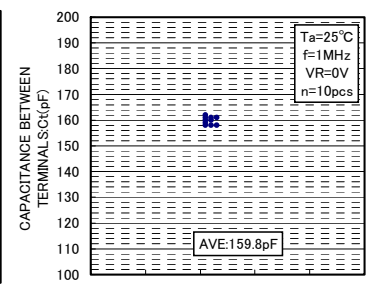
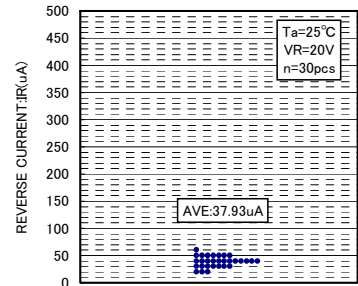
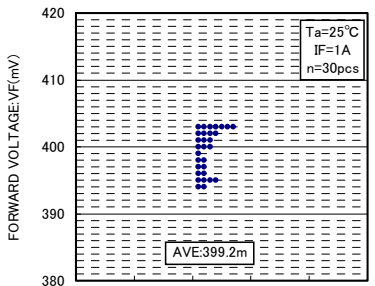
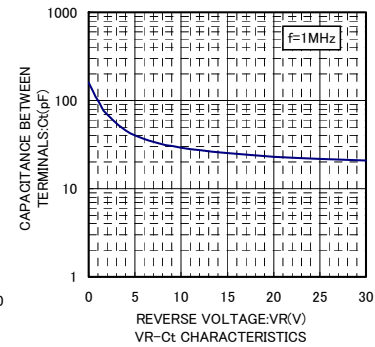
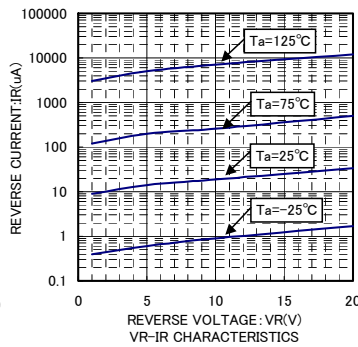
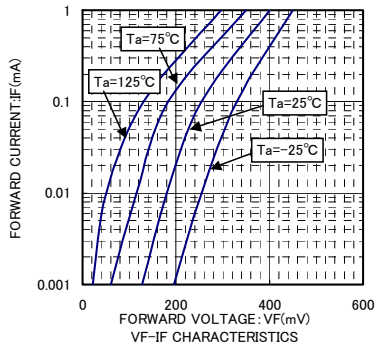
(\*1)Rating of per diode

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

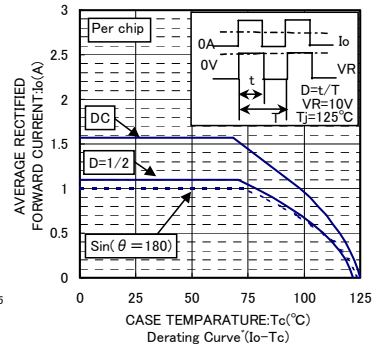
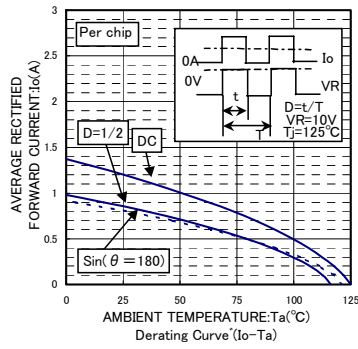
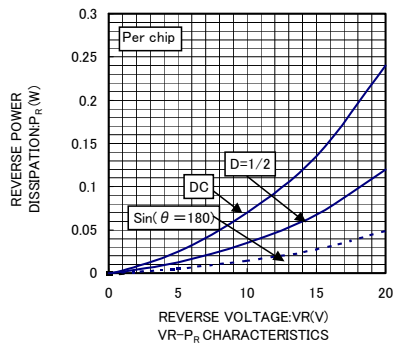
| Parameter       | Symbol | Min. | Typ. | Max. | Unit    | Conditions |
|-----------------|--------|------|------|------|---------|------------|
| Forward voltage | $V_F$  | -    | -    | 0.45 | V       | $I_F=1A$   |
| Reverse current | $I_R$  | -    | -    | 200  | $\mu A$ | $V_R=20V$  |

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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