

# Schottky Barrier Diode

## RB521S-30

### ●Applications

General rectification

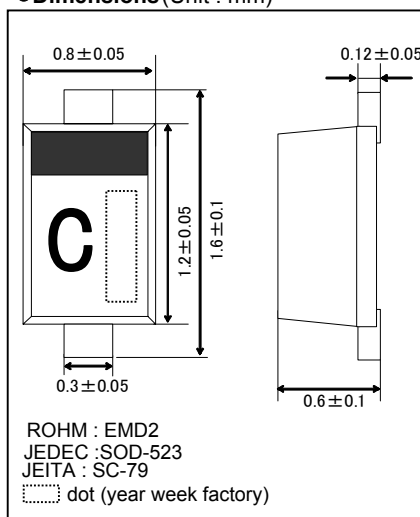
### ●Features

- 1) Ultra small mold type. (EMD2)
- 2) Low  $V_F$
- 3) High reliability

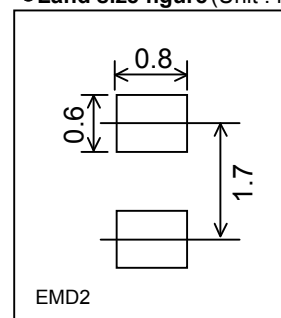
### ●Construction

Silicon epitaxial planar

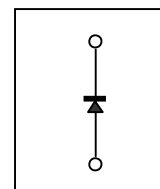
### ●Dimensions (Unit : mm)



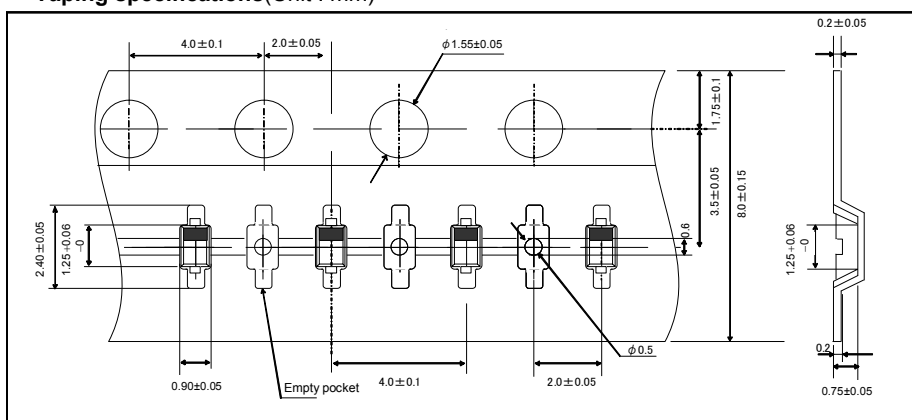
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)

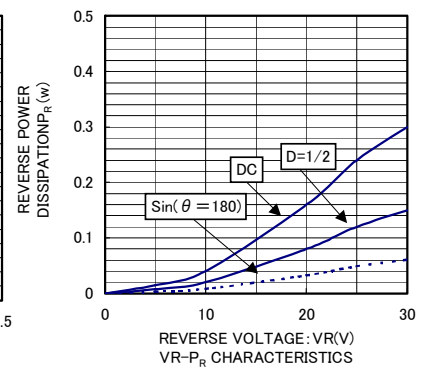
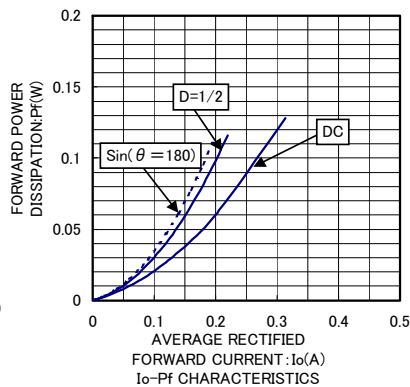
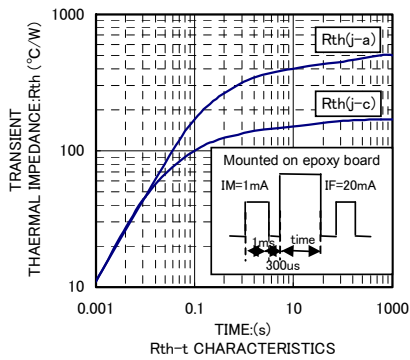
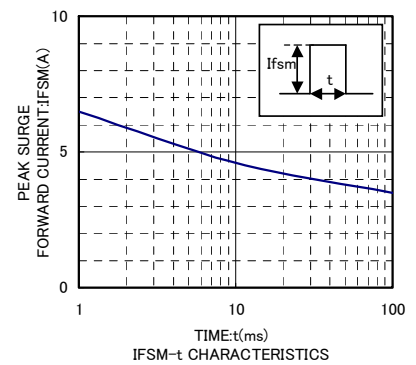
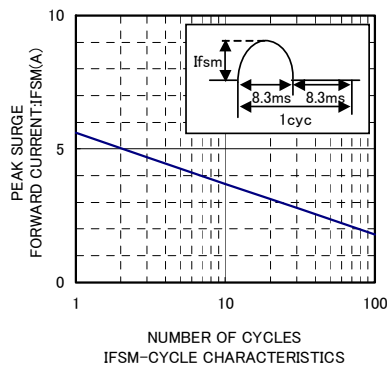
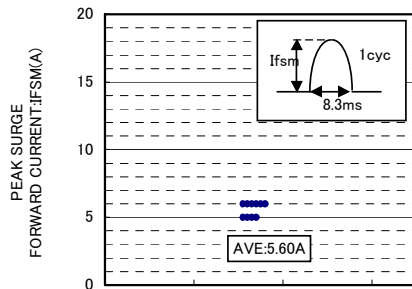
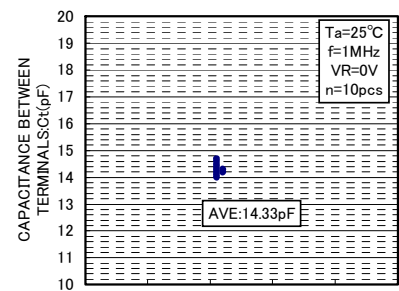
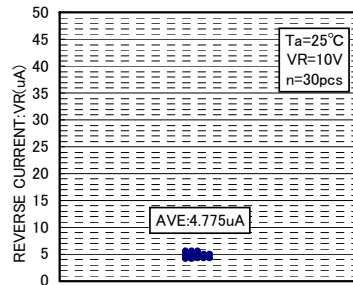
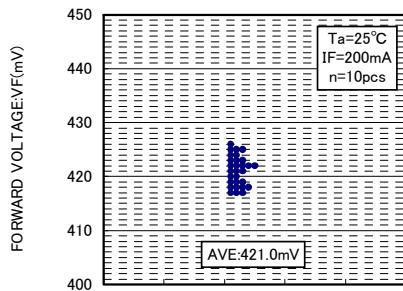
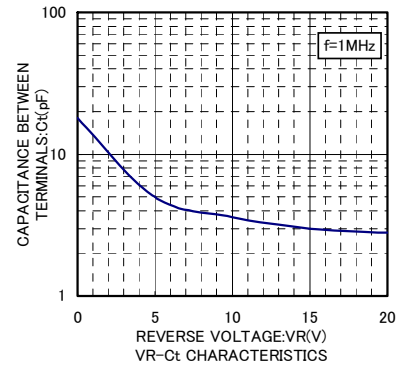
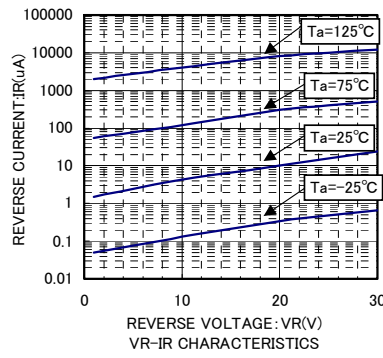
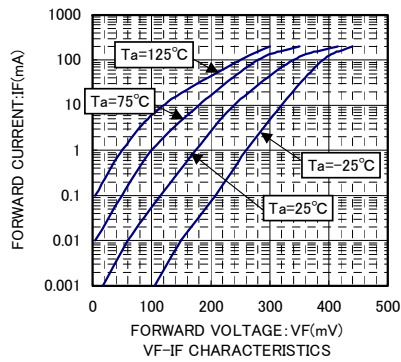


### ●Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

| Parameter                                | Symbol    | Limits      | Unit             |
|------------------------------------------|-----------|-------------|------------------|
| Reverse voltage (DC)                     | $V_R$     | 30          | V                |
| Average rectified forward current        | $I_O$     | 200         | mA               |
| Forward current surge peak (60Hz · 1cyc) | $I_{FSM}$ | 1           | A                |
| Junction temperature                     | $T_j$     | 125         | $^\circ\text{C}$ |
| Storage temperature                      | $T_{stg}$ | -40 to +125 | $^\circ\text{C}$ |

### ●Electrical characteristics ( $T_a=25^\circ\text{C}$ )

| Parameter       | Symbol | Min. | Typ. | Max. | Unit          | Conditions         |
|-----------------|--------|------|------|------|---------------|--------------------|
| Forward voltage | $V_F$  | -    | -    | 0.50 | V             | $I_F=200\text{mA}$ |
| Reverse current | $I_R$  | -    | -    | 30   | $\mu\text{A}$ | $V_R=10\text{V}$   |





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