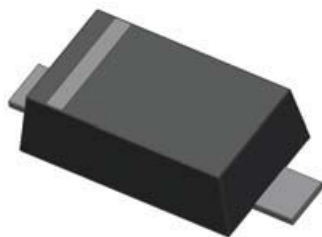




## RB521S-30

## Schottky Barrier Diode



## Features

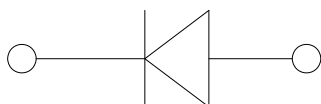
- $V_R$  30V
- $I_F$  200mA

## Typical Applications

- Low Forward Voltage Drop

## Mechanical Data

- **Package:** SOD-523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** C



## ■Limiting Values (Absolute Maximum Rating)

| Item                                      | Symbol    | Unit | Conditions                  | Limit Max   |
|-------------------------------------------|-----------|------|-----------------------------|-------------|
| Power Dissipation                         | $P_D$     | mW   |                             | 150         |
| Storage Temperature                       | $T_{STG}$ | °C   |                             | -40 to +125 |
| Junction Temperature                      | $T_J$     | °C   |                             | 125         |
| DC Reverse Voltage                        | $V_R$     | V    |                             | 30          |
| Average Rectified Forward Current         | $I_{FAV}$ | mA   |                             | 200         |
| Non-repetitive Peak Forward Surge Current | $I_{FSM}$ | A    | 8.3ms single half sine-wave | 1.0         |

■Electrical Characteristics ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified)

| Item                    | Symbol | Unit          | Conditions                          | Min | Typ | Max |
|-------------------------|--------|---------------|-------------------------------------|-----|-----|-----|
| Breakdown Voltage       | $V_R$  | V             | $I_R=500\mu\text{A}$                | 30  |     |     |
| Forward Voltage         | $V_F$  | V             | $I_F=200\text{mA}$                  |     |     | 0.5 |
| Reverse Leakage Current | $I_R$  | $\mu\text{A}$ | $V_R=10\text{V}$                    |     |     | 30  |
| Junction Capacitance    | $C_J$  | pF            | $F=1.0\text{MHz}$ , $V_R=1\text{V}$ |     | 10  | 20  |

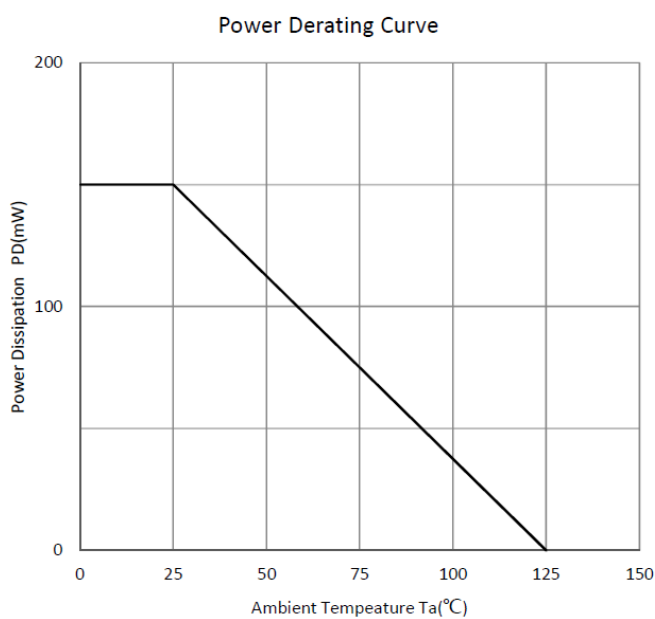
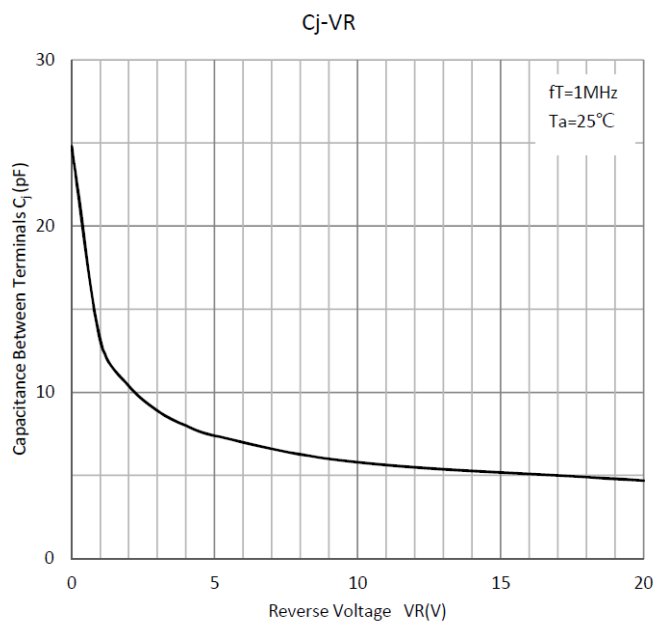
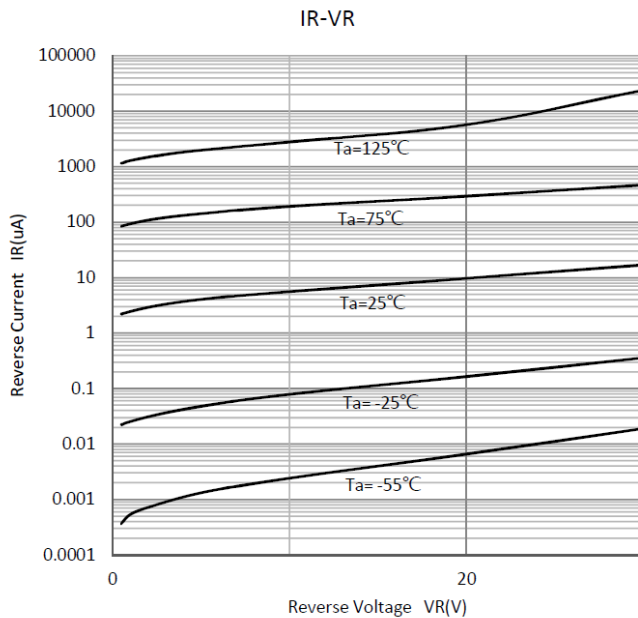
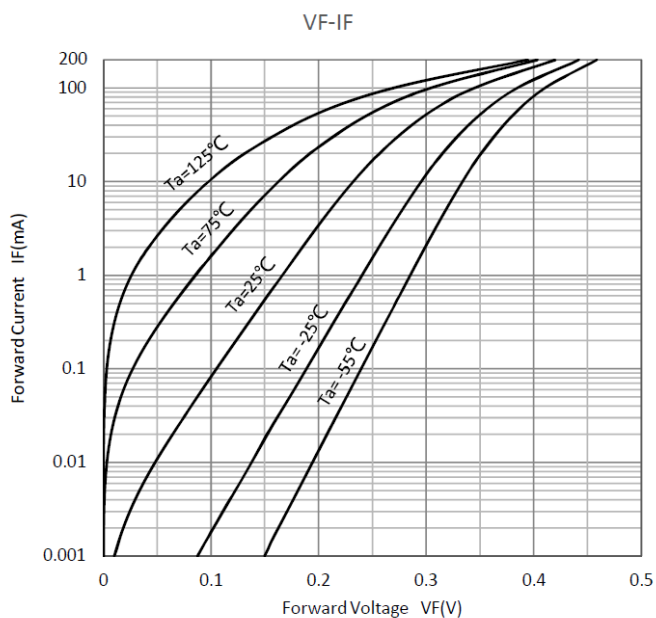


## RB521S-30

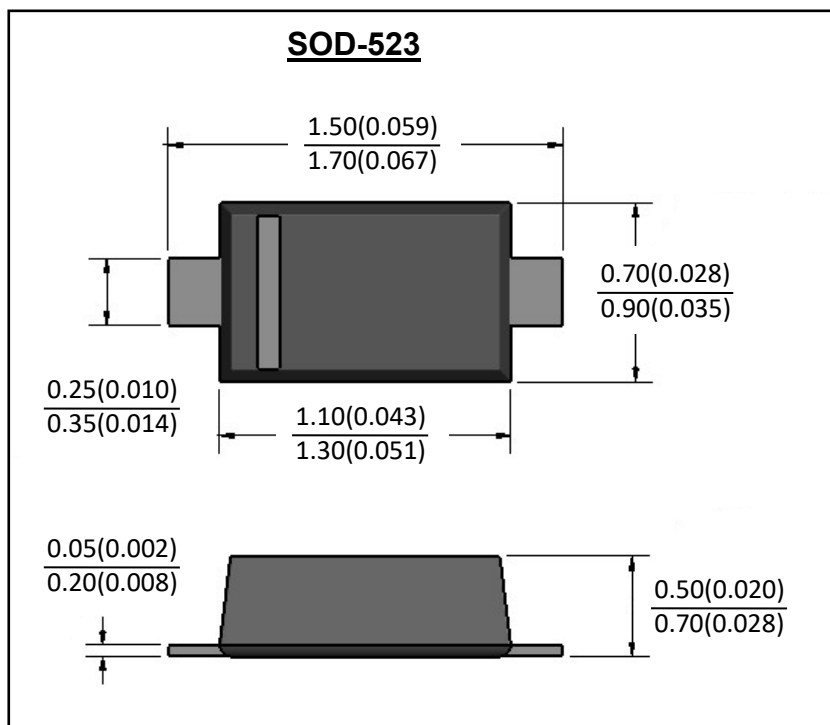
### ■Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g)     | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|--------------------|----------------------|-------------------------|----------------------------|---------------|
| RB521S-30     | F2           | Approximate 0.0025 | 8000                 | 80000                   | 320000                     | 7" reel       |

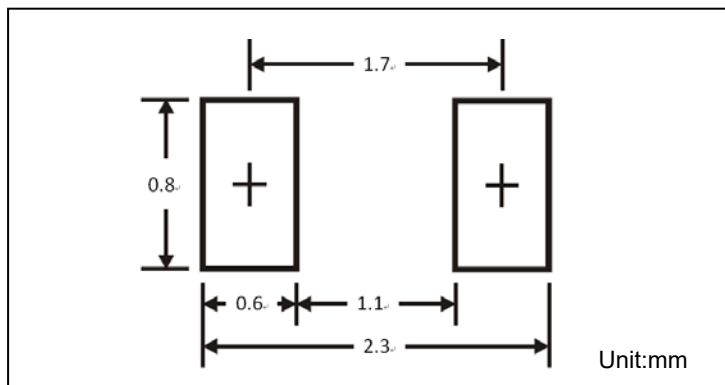
### ■Characteristics(Typical)



## ■ SOD-523 Package Outline Dimensions



## ■ SOD-523 Soldering Footprint





## RB521S-30

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