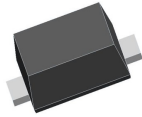




Tonghua Electronics



SOD-523

MARKING: C



RB521S-30

SOD-523 贴片塑封肖特基二极管

SOD-523 Plastic-Encapsulate Schottky Barrier Diode

特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop

机械数据 Mechanical Data

- 封装: SOD-523 封装 SOD-523 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

| 参数<br>Parameters                                                    | 符号<br>Symbol | Limit    | 单位<br>Unit |
|---------------------------------------------------------------------|--------------|----------|------------|
| 峰值反向电压<br>Peak reverse voltage                                      | VRM          | 30       | V          |
| 直流反向电压<br>DC reverse voltage                                        | VR           | 30       | V          |
| 整流电流<br>Mean rectifying current                                     | Io           | 0.2      | A          |
| 峰值正向浪涌电流<br>Peak forward surge current 8.3 ms single half sine-wave | IFSM         | 1.0      | A          |
| 典型热阻<br>Typical thermal resistance                                  | RθJA         | 667      | ℃/W        |
| 功率消耗<br>Power Dissipation                                           | PD           | 150      | mW         |
| 存储温度<br>Storage temperature range                                   | TSTG         | -50-+150 | ℃          |

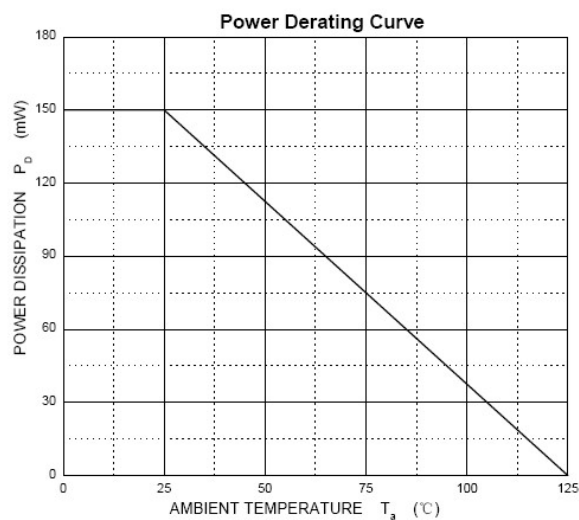
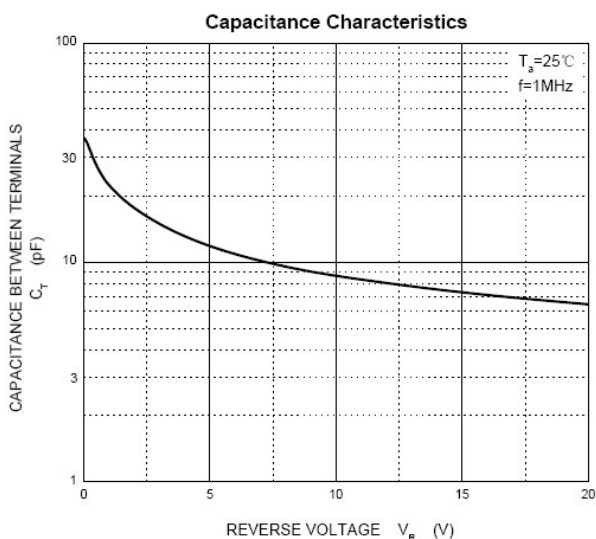
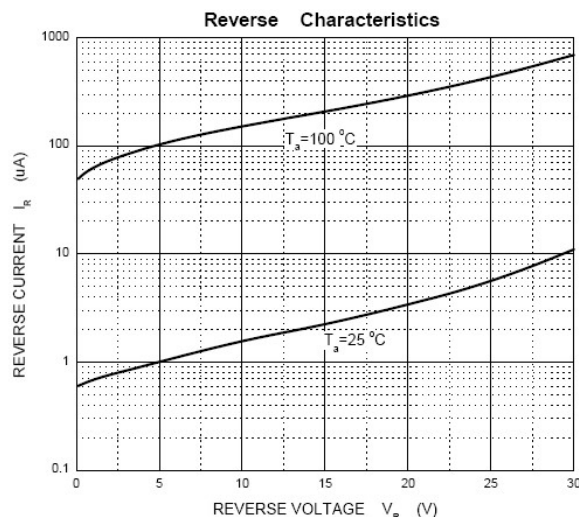
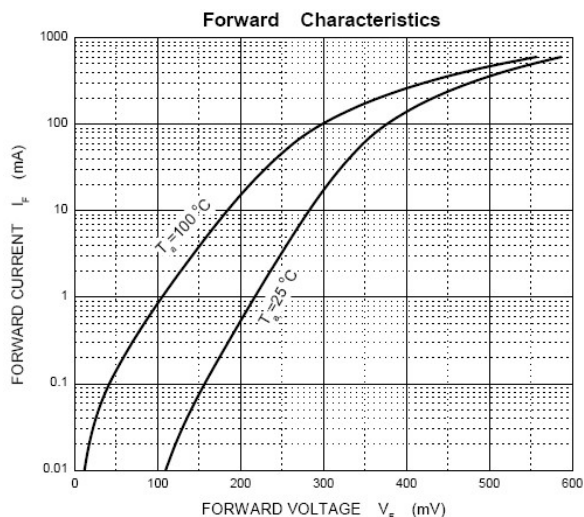
电特性 (TA = 25℃ 除非另有规定)

Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

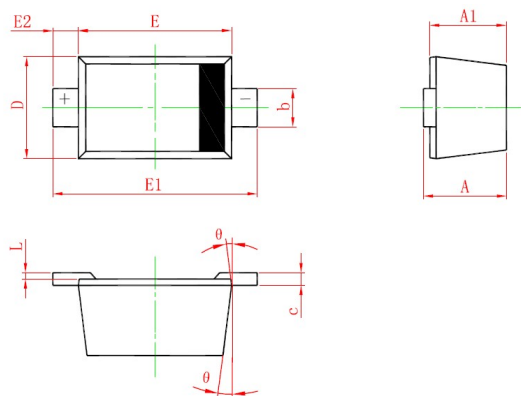
| 参数<br>Parameters                            | 符号<br>Symbol | 测试条件<br>Test conditions | Min | Typ | Max          | 单位<br>Unit |
|---------------------------------------------|--------------|-------------------------|-----|-----|--------------|------------|
| 最大正向电压<br>Maximum forward voltage           | VF           | IF = 10mA<br>IF = 200mA |     |     | 0.35<br>0.50 | V          |
| 最大反向电压<br>Maximum reverse breakdown voltage | VR           | IR=1mA                  | 30  |     |              | V          |
| 最大反向电流<br>Maximum reverse current           | IR           | VR=10V                  |     |     | 30           | uA         |

# RB521S-30

## 特性曲线 Characteristic Curves



## SOD-523 PACKAGE OUTLINE Plastic surface mounted package



| Symbol   | Dimensions In Millimeters |       | Dimensions In Inches |       |
|----------|---------------------------|-------|----------------------|-------|
|          | Min                       | Max   | Min                  | Max   |
| A        | 0.510                     | 0.770 | 0.020                | 0.031 |
| A1       | 0.500                     | 0.700 | 0.020                | 0.028 |
| b        | 0.250                     | 0.350 | 0.010                | 0.014 |
| c        | 0.080                     | 0.150 | 0.003                | 0.006 |
| D        | 0.750                     | 0.850 | 0.030                | 0.033 |
| E        | 1.100                     | 1.300 | 0.043                | 0.051 |
| E1       | 1.500                     | 1.700 | 0.059                | 0.067 |
| E2       | 0.200 REF                 |       | 0.008 REF            |       |
| L        | 0.010                     | 0.070 | 0.001                | 0.003 |
| $\theta$ | 7° REF                    |       | 7° REF               |       |