

Description

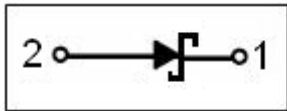
The RB520S-30 is schottky barrier diode, SOD-523 plastic package.

Features

- Low forward voltage drop
- Halogen-free product

| | | |
|-------|--------|-----------|
| V_R | I_F | I_{FSM} |
| 30 V | 200 mA | 1 A |

Equivalent Circuit & Pinning



PIN1:Cathode

PIN2:Anode

Marking

| | |
|---------|---|
| Marking | B |
|---------|---|

Maximum Rating & Thermal Characteristics(Ta=25 °C)

| Parameter | Symbol | Rating | Unit |
|---|-----------|-------------|------|
| Reverse Voltage | V_R | 30 | V |
| Forward Continuous Current | I_F | 200 | mA |
| Non-Repetitive Peak Forward Surge Current @t = 8.3ms | I_{FSM} | 1 | A |
| Power dissipation | P_D | 200 | mW |
| Junction Temperature | T_J | 125 | °C |
| Storage Temperature | T_{stg} | -55 to +125 | °C |

Electrical Characteristics(Ta=25 °C)

| Parameter | Symbol | Test Conditions | Rating | | | Unit |
|---------------------------|----------|-----------------|--------|-----|------|---------|
| | | | Min | Typ | Max | |
| Reverse Breakdown Voltage | V_{BR} | $I_R=500\mu A$ | 30 | | | V |
| Forward Voltage | V_F | $I_F=200mA$ | | | 0.60 | V |
| Peak Reverse Current | I_R | $V_R=10V$ | | | 1.0 | μA |

Electrical Characteristic Curve

Fig.1 Power Derating Curve

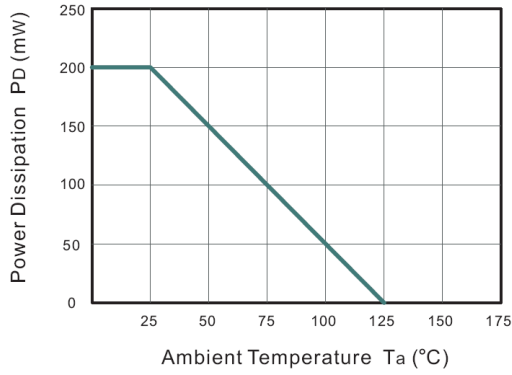


Fig.2 Typical Instantaneous Reverse Characteristics

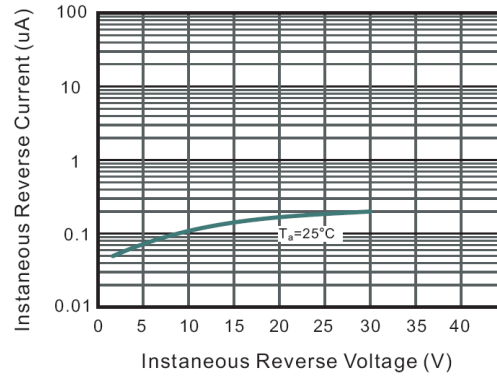
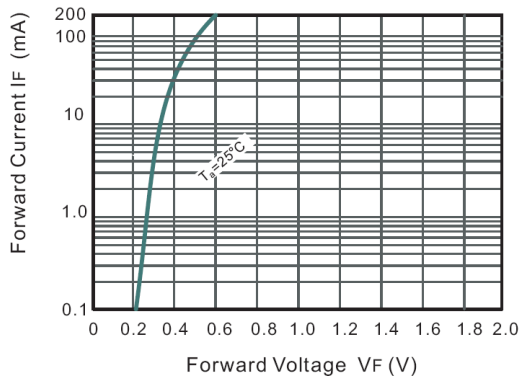
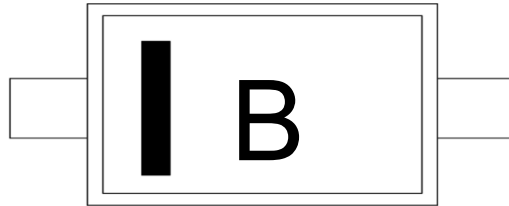


Fig.3 Typical Forward Characteristic



Marking instructions



Note:
B: Product Type.

Package Outline Dimensions

SOD-523

