

# GSDSRB751S-40

## Schottky Barrier Diode

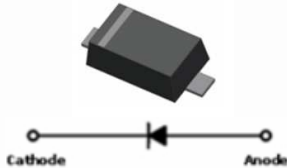
### Product Description

Schottky Barrier Diode 200mW / 30V

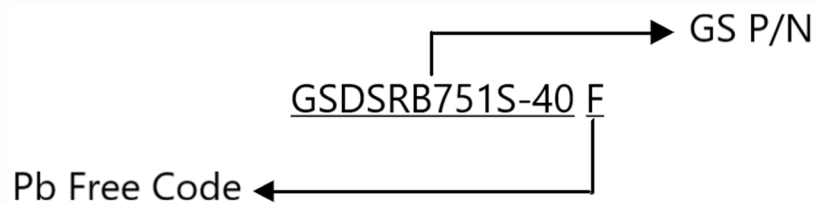
### Features

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicate Cathode

### Marking Information

| Part Number    | Package | Part Marking | Equivalent Circuit diagram  |
|----------------|---------|--------------|---|
| GSDSRB751S-40F | SOD-523 | 4B           |  |

### Ordering Information



| Part Number    | Package | Quantity |
|----------------|---------|----------|
| GSDSRB751S-40F | SOD-523 | 3000 PCS |

GSDSRB751S-40

## Absolute Maximum Ratings

(T<sub>A</sub>=25°C Unless otherwise noted)

| Symbol           | Parameter   | Value       | Unit |
|------------------|---|-------------|------|
| P <sub>D</sub>   | Power Dissipation   | 200         | mW   |
| V <sub>RRM</sub> | Repetitive Peak Reverse Voltage   | 40          | V    |
| V <sub>R</sub>   | Reverse Voltage   | 30          | V    |
| T <sub>J</sub>   | Operating Junction Temperature  | +125        | °C   |
| T <sub>STG</sub> | Storage Temperature Range   | -55 to +125 | °C   |
| I <sub>F</sub>   | Forward Current   | 30          | mA   |
| I <sub>FSM</sub> | Non-Repetitive Peak Forward Current<br>( at 8.3ms single half sine-wave ) | 200         | mA   |

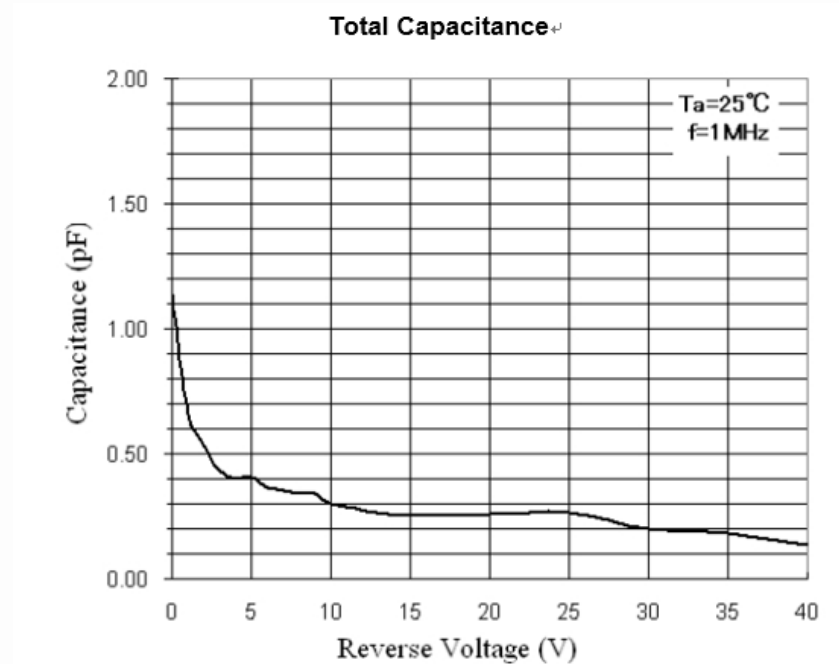
These ratings are limiting values above which the serviceability of the diode may be impaired.

## Electrical Characteristics

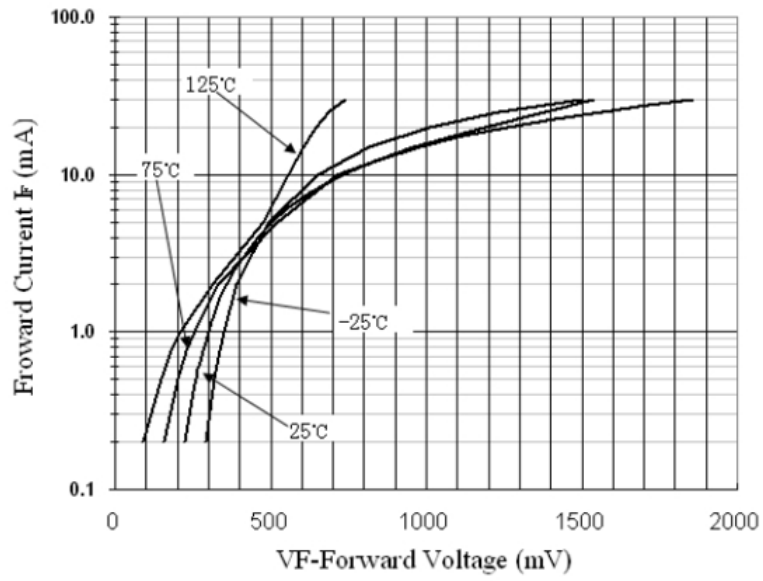
(T<sub>A</sub>=25°C Unless otherwise noted)

| Symbol         | Parameter         | Test Condition        | Min | Max  | Unit |
|----------------|-------------------|-----------------------|-----|------|------|
| B <sub>V</sub> | Breakdown Voltage | I <sub>R</sub> = 10μA | 30  | -    | V    |
| I <sub>R</sub> | Reverse Current   | V <sub>R</sub> = 30V  | -   | 0.5  | μA   |
| V <sub>F</sub> | Forward Voltage   | I <sub>F</sub> = 1mA  | -   | 0.37 | V    |

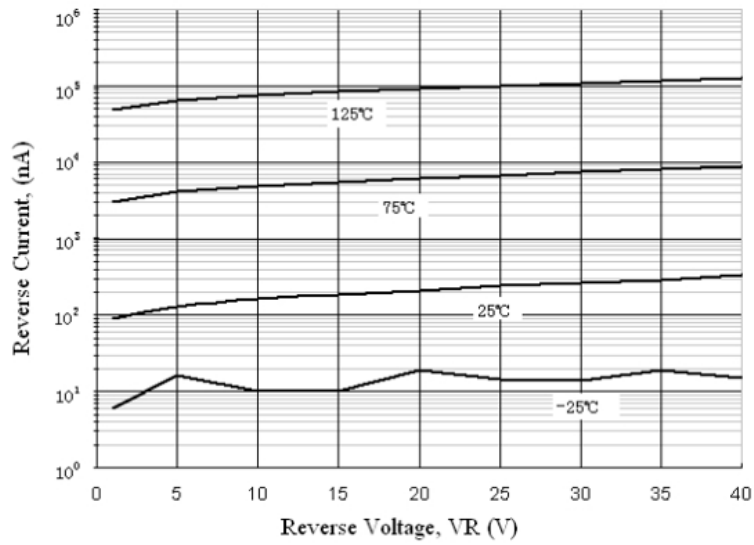
## Typical Characteristics



Forward Voltage vs Ambient Temperature

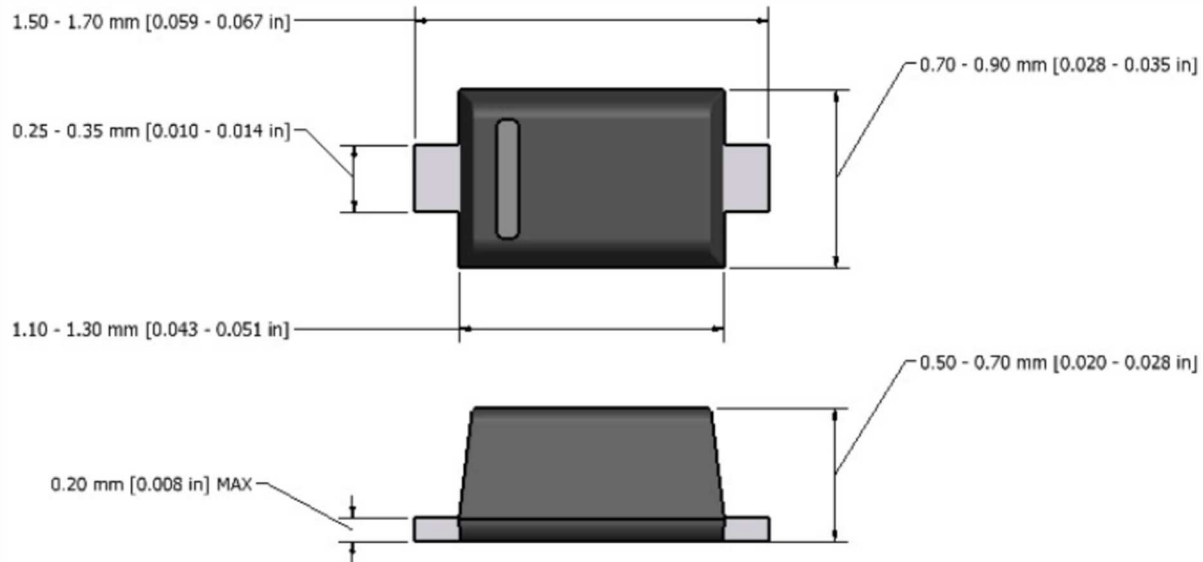


Reverse Current vs Reverse Voltage



# Package Dimension

## SOD-523







NOTES:  
Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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