

# RB751S-40

200mW SOD-523 SURFACE MOUNT  
Very Small Outline Flat Lead Plastic Package  
Schottky Barrier Diode

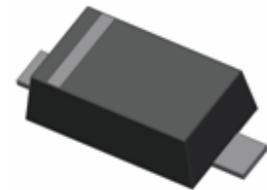


## Green Product

### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol    | Parameter   | Value       | Units            |
|-----------|---|-------------|------------------|
| $P_D$     | Power Dissipation   | 200         | mW               |
| $T_{STG}$ | Storage Temperature Range   | -55 to +125 | $^\circ\text{C}$ |
| $T_J$     | Operating Junction Temperature  | +125        | $^\circ\text{C}$ |
| $V_{RM}$  | Peak Reverse Voltage  | 40          | V                |
| $V_R$     | Reverse Voltage   | 30          | V                |
| $I_F$     | Forward Current   | 50          | mA               |
| $I_{FSM}$ | 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.



SOD-523 Flat Lead



ELECTRICAL SYMBOL

### Specification Features:

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

### DEVICE MARKING CODES:

| Device Type | Device Marking |
|-------------|----------------|
| RB751S-40   | 4B             |

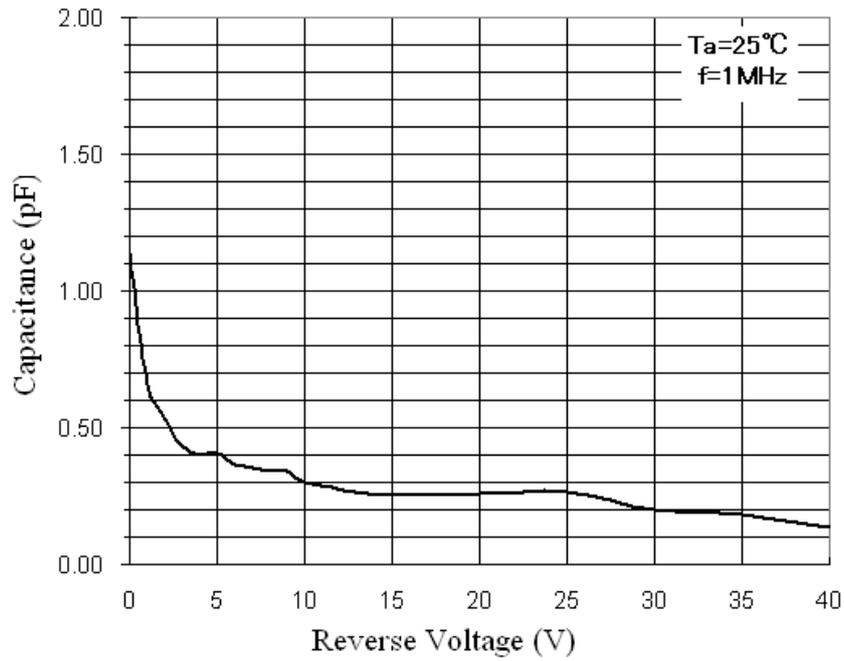
### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter               | Test Condition      | Limits |      | Unit          |
|--------|-------------------------|---------------------|--------|------|---------------|
|        |                         |                     | Min    | Max  |               |
| $B_V$  | Breakdown Voltage       | $I_R=10\mu\text{A}$ | 30     |      | Volts         |
| $I_R$  | Reverse Leakage Current | $V_R=30\text{V}$    |        | 0.5  | $\mu\text{A}$ |
| $V_F$  | Forward Voltage         | $I_F=1\text{mA}$    |        | 0.37 | Volts         |

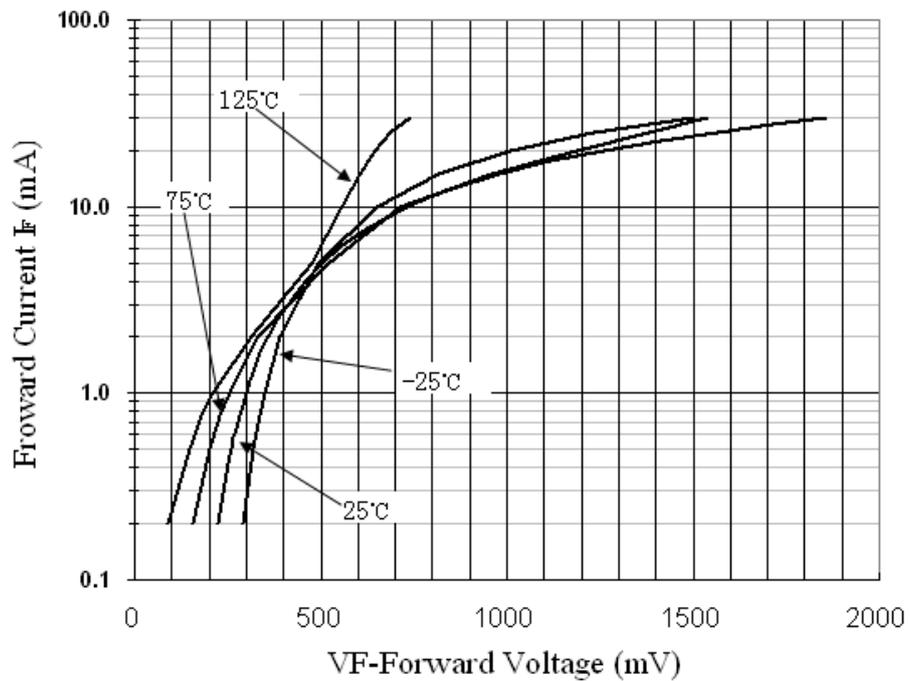
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## Typical Performance Characteristics

### Total Capacitance

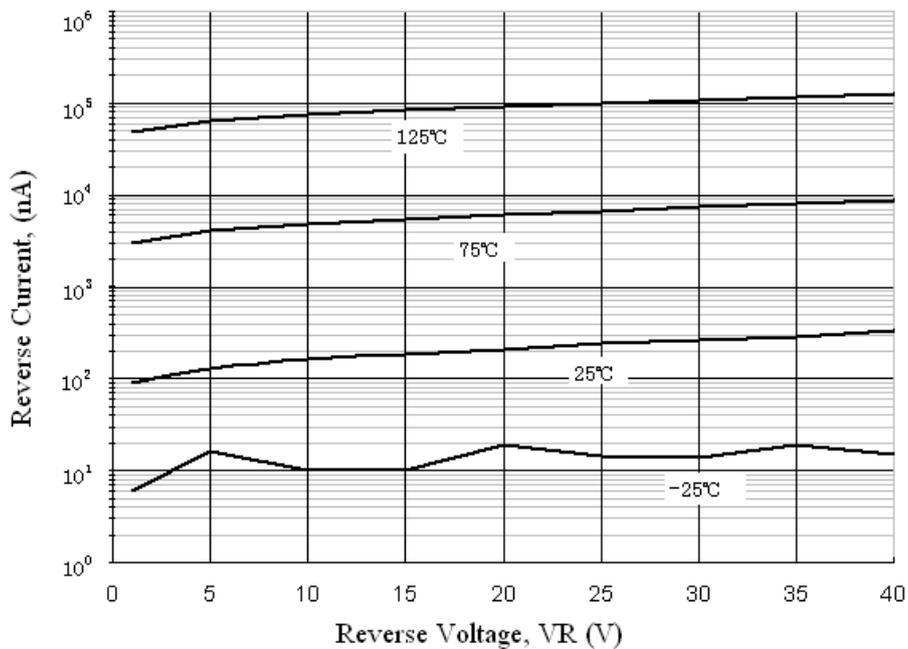


### Forward Voltage vs Ambient Temperature

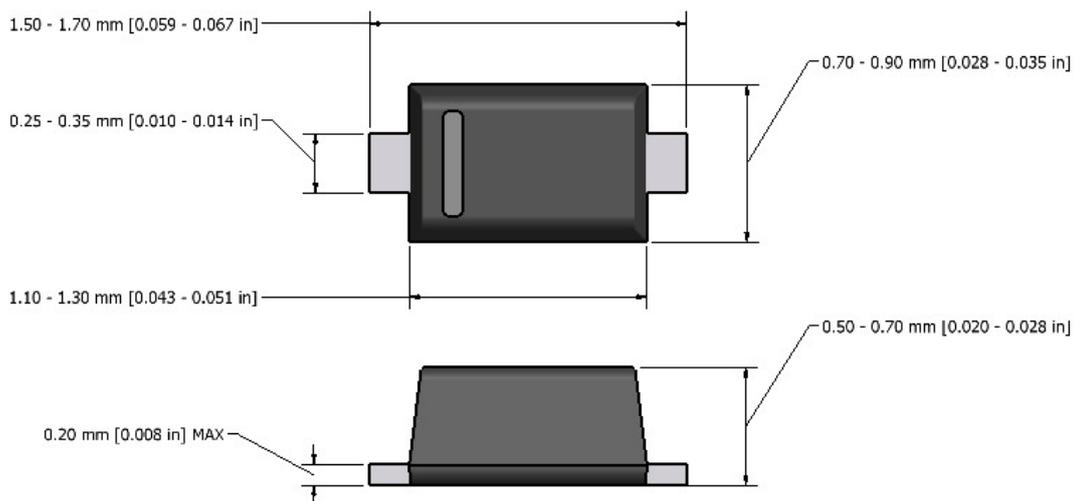


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### Reverse Current vs Reverse Voltage



### Flat Lead SOD-523 Package Outline



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