

## Features

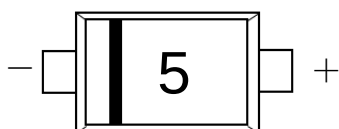
- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability



SOD-723 top view



Schematic diagram



Marking and pin assignment



Halogen-Free

## Maximum Ratings( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Symbol          | Parameter                                                   | Value      | Unit                 |
|-----------------|-------------------------------------------------------------|------------|----------------------|
| $V_R$           | DC reverse voltage                                          | 30         | V                    |
| $V_{RM}$        | Peak reverse voltage                                        | 40         | V                    |
| $I_O$           | Average rectified forward current                           | 30         | mA                   |
| $I_{FSM}$       | Non-repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$ | 200        | mA                   |
| $P_D$           | Maximum Power Dissipation                                   | 150        | mW                   |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient                     | 667        | $^{\circ}\text{C/W}$ |
| $T_J$           | Junction temperature                                        | -40~+125   | $^{\circ}\text{C}$   |
| $T_{stg}$       | Storage temperature                                         | -55 ~ +150 | $^{\circ}\text{C}$   |

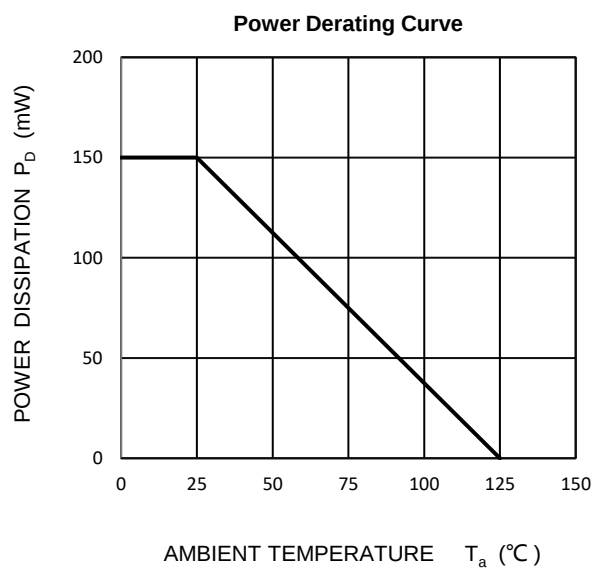
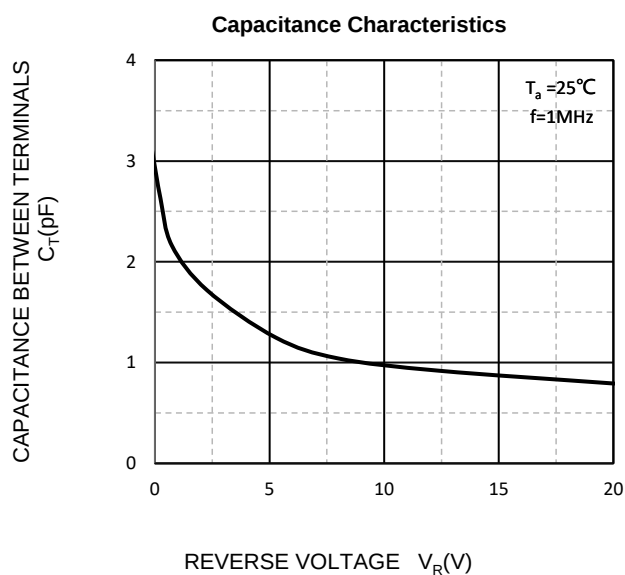
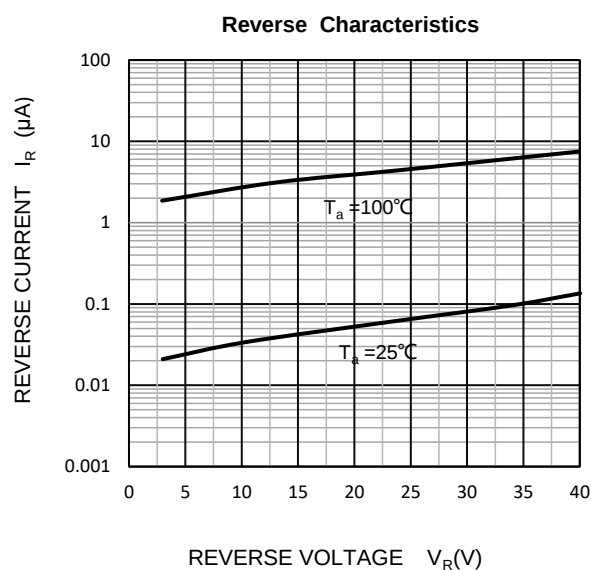
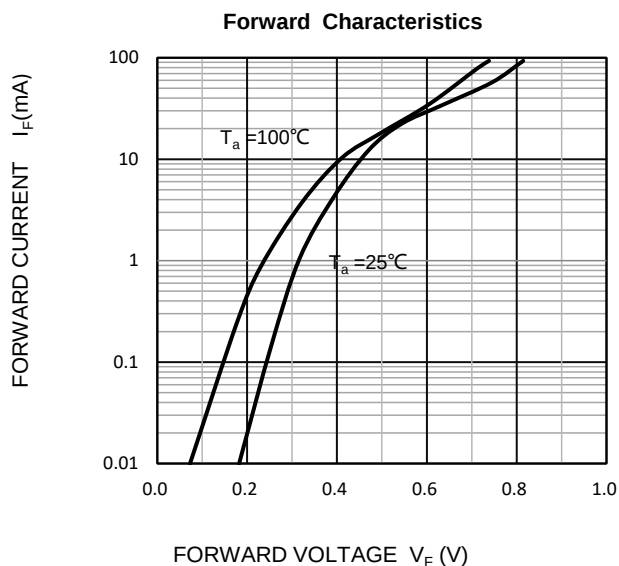
## ELECTRICAL CHARACTERISTICS( $T_a=25^{\circ}\text{C}$ unless otherwise specified)

| Symbol | Parameter                     | Condition                      | Min | Typ | Max  | Unit          |
|--------|-------------------------------|--------------------------------|-----|-----|------|---------------|
| $I_R$  | Reverse current               | $V_R=30\text{V}$               | --  | --  | 0.5  | $\mu\text{A}$ |
| $V_F$  | Forward voltage               | $I_F=1\text{mA}$               | --  | --  | 0.37 | V             |
| $C_T$  | Capacitance between terminals | $V_R=1\text{V}, f=1\text{MHz}$ | --  | 2   | --   | pF            |

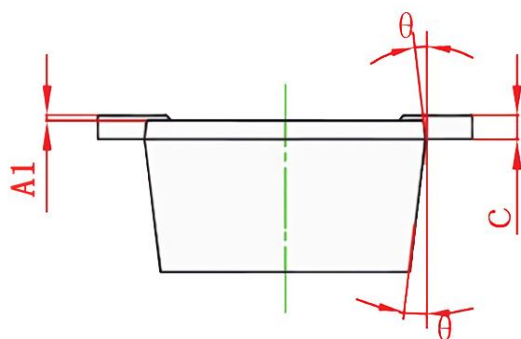
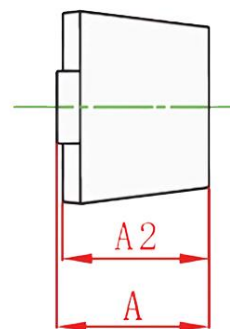
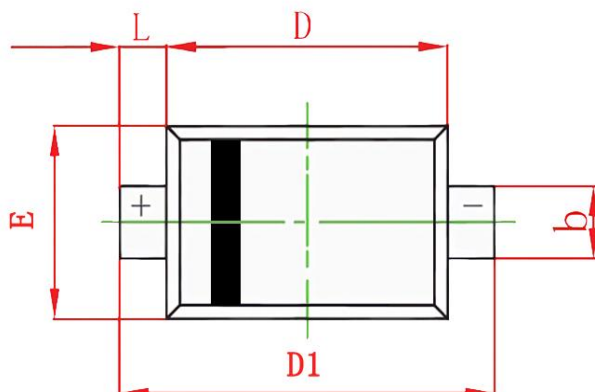
## Ordering Information (Example)

| Type      | Package | Marking | Minimum Package(pcs) | Inner Box Quantity(pcs) | Outer Carton Quantity(pcs) | Delivery Mode |
|-----------|---------|---------|----------------------|-------------------------|----------------------------|---------------|
| RB751G-40 | SOD-723 | 5       | 8,000                | 120,000                 | 480,000                    | 7"reel        |

## Typical Operating Characteristics



SOD-723 Package information



| Symbol | Dimensions in Millimeters(mm) |       | Dimensions In Inches |       |
|--------|-------------------------------|-------|----------------------|-------|
|        | Min                           | Max   | Min                  | Max   |
| A      | 0.525                         | 0.650 | 0.021                | 0.026 |
| A1     | 0.010                         | 0.070 | 0.000                | 0.003 |
| A2     | 0.515                         | 0.580 | 0.020                | 0.023 |
| b      | 0.250                         | 0.350 | 0.010                | 0.014 |
| c      | 0.080                         | 0.150 | 0.003                | 0.006 |
| D      | 0.900                         | 1.100 | 0.035                | 0.043 |
| D1     | 1.300                         | 1.500 | 0.051                | 0.059 |
| E      | 0.550                         | 0.650 | 0.022                | 0.026 |
| L      | 0.200 REF                     |       | 0.008 REF            |       |
| θ      | 7°REF                         |       | 7°REF                |       |