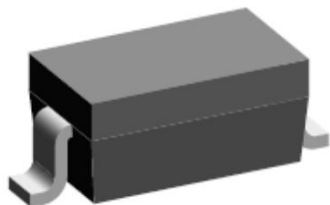


**Small Signal Product**

**Schottky Barrier Diode**

**FEATURES**

- Surface Mount Device Type
- Pb free and RoHS compliant
- Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code



**SOD-323**

**MECHANICAL DATA**

- Case: Bend lead SOD-323 small outline plastic package
- Terminal: Matte tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: 260°C/10s
- Polarity: Indicated by cathode band
- Marking: D4

| <b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b> ( $T_A=25^\circ\text{C}$ unless otherwise noted) |               |               |                           |
|--|---------------|---------------|---------------------------|
| <b>PARAMETER</b>   | <b>SYMBOL</b> | <b>VALUE</b>  | <b>UNIT</b>               |
| Non-Repetitive Peak Reverse Voltage  | $V_{RM}$      | 40            | V                         |
| Continuous Forward Current   | $I_o$         | 500           | mA                        |
| Forward Peak Surge Current @ $t=8.3\text{ms}$  | $I_{FSM}$     | 2.0           | A                         |
| Power Dissipation  | $P_D$         | 200           | mW                        |
| Thermal Resistance from Junction to Ambient  | $R_{JA}$      | 500           | $^\circ\text{C}/\text{W}$ |
| Junction Temperature   | $T_J$         | 125           | $^\circ\text{C}$          |
| Storage Temperature  | $T_{STG}$     | - 55 to + 150 | $^\circ\text{C}$          |

| <b>PARAMETER</b>          | <b>SYMBOL</b> | <b>MIN</b> | <b>TYP</b> | <b>MAX</b> | <b>TEST CONDITION</b> | <b>UNIT</b> |
|---------------------------|---------------|------------|------------|------------|-----------------------|-------------|
| Reverse Breakdown Voltage | $V_{(BR)}$    | 40         |            |            | $I_R=0.1\text{mA}$    | V           |
| Reverse Leakage Current   | $I_R$         |            |            | 0.1        | $V_R=40\text{V}$      | mA          |
| Forward Voltage           | $V_F$         |            |            | 0.47       | $I_F=500\text{mA}$    | V           |

**Small Signal Product**

| <b>ORDERING INFORMATION</b> |                                |                     |                            |                |                |                |
|-----------------------------|--------------------------------|---------------------|----------------------------|----------------|----------------|----------------|
| <b>PART NO.</b>             | <b>MANUFACTURE CODE (Note)</b> | <b>PACKING CODE</b> | <b>GREEN COMPOUND CODE</b> | <b>PACKAGE</b> | <b>PACKING</b> | <b>MARKING</b> |
| RB551V-40                   |                                | RQ                  | G                          | SOD-323        | 3K / 7" Reel   | D4             |

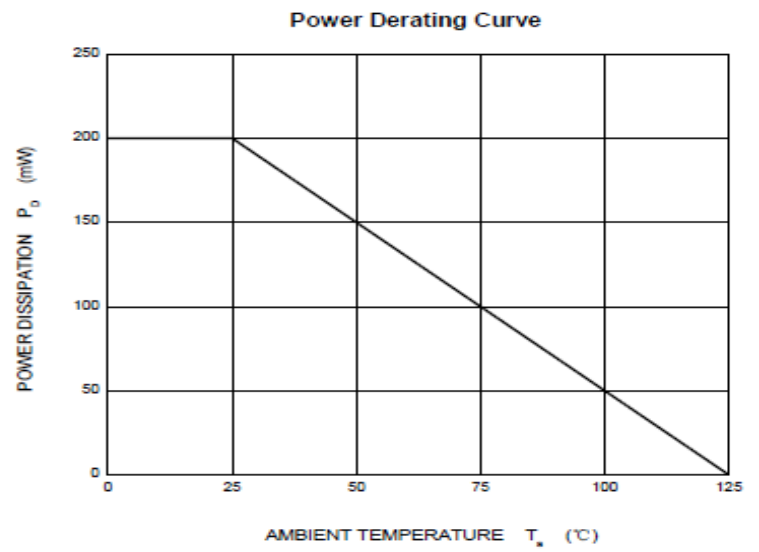
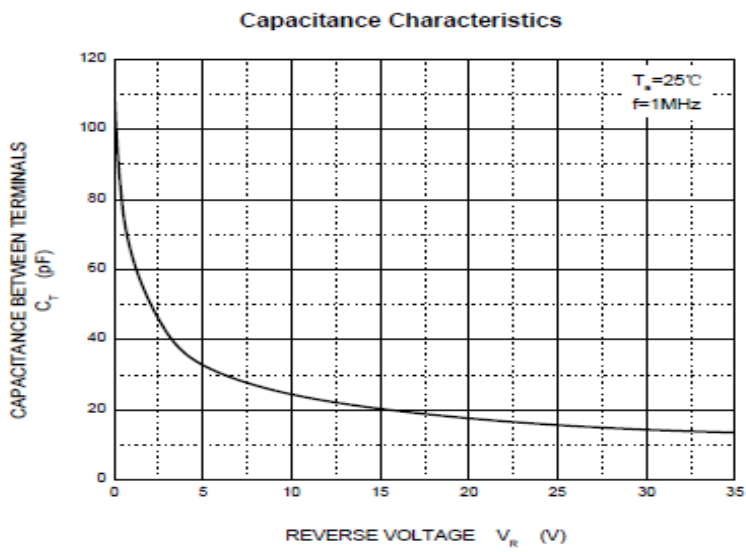
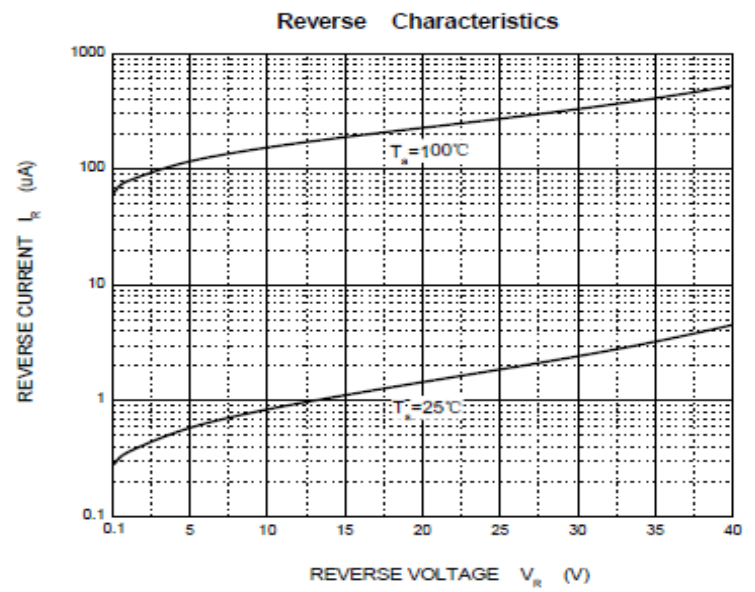
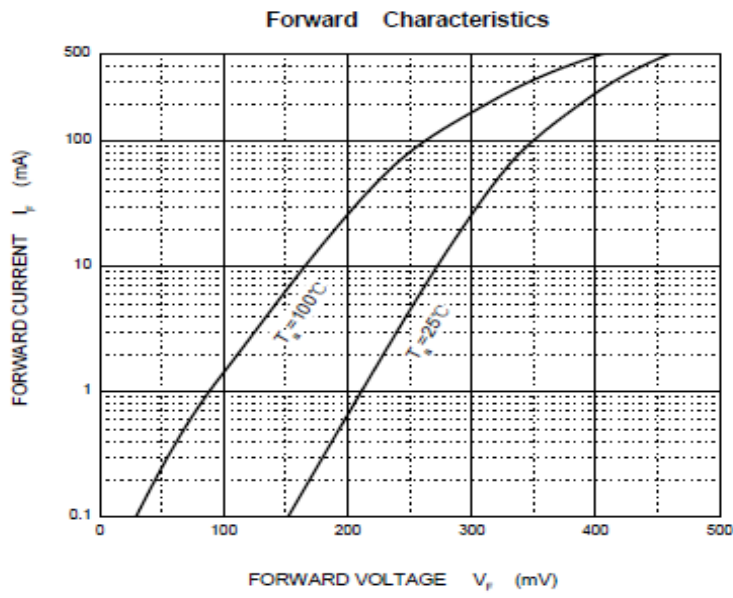
Note: Manufacture special control, if empty means no special control requirement.

| <b>EXAMPLE</b>       |                 |                         |                     |                            |                    |
|----------------------|-----------------|-------------------------|---------------------|----------------------------|--------------------|
| <b>PREFERRED P/N</b> | <b>PART NO.</b> | <b>MANUFACTURE CODE</b> | <b>PACKING CODE</b> | <b>GREEN COMPOUND CODE</b> | <b>DESCRIPTION</b> |
| RB551V-40 RQG        | RB551V-40       |                         | RQ                  | G                          | Green compound     |
| RB551V-40-M0 RQG     | RB551V-40       | M0                      | RQ                  | G                          | Green compound     |

**Small Signal Product**

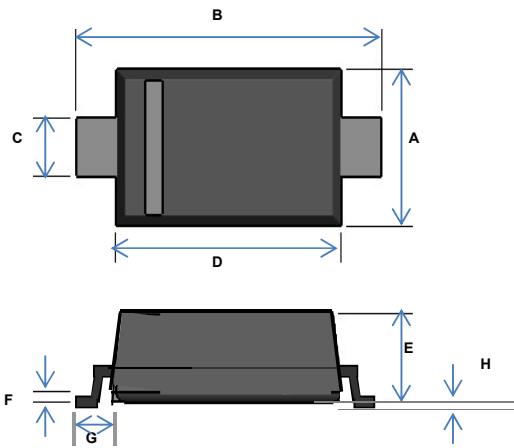
**RATINGS AND CHARACTERISTICS CURVES (RB551V-40)**

(TA=25°C unless otherwise noted)



**Small Signal Product**

**DIMENSIONS**  
**SOD-323**



| DIM. | Unit (mm) |      | Unit (inch) |       |
|------|-----------|------|-------------|-------|
|      | Min       | Max  | Min         | Max   |
| A    | 1.15      | 1.40 | 0.045       | 0.055 |
| B    | 2.30      | 2.70 | 0.091       | 0.106 |
| C    | 0.25      | 0.45 | 0.010       | 0.018 |
| D    | 1.60      | 1.80 | 0.063       | 0.071 |
| E    | 0.80      | 1.00 | 0.031       | 0.039 |
| F    | 0.05      | 0.17 | 0.002       | 0.007 |
| G    | 0.475 REF |      | 0.19 REF    |       |
| H    | -         | 0.10 | -           | 0.004 |

**PIN CONFIGURATION**



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