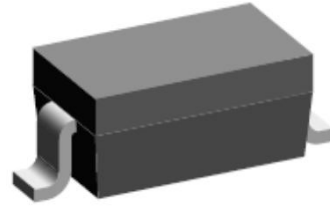


**Small Signal Product**

**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 <sub>A</sub> =25°C unless otherwise noted)			
<b>PARAMETER</b>	<b>SYMBOL</b>	<b>VALUE</b>	<b>UNIT</b>
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	40	V
Continuous Forward Current	I <sub>o</sub>	500	mA
Forward Peak Surge Current @t=8.3ms	I <sub>FSM</sub>	2.0	A
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance from Junction to Ambient	R <sub>JA</sub>	500	°C/W
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	- 55 to + 150	°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 <sub>(BR)</sub>	40			I <sub>R</sub> =0.1mA	V
Reverse Leakage Current	I <sub>R</sub>			0.1	V <sub>R</sub> =40V	mA
Forward Voltage	V <sub>F</sub>			0.47	I <sub>F</sub> =500mA	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

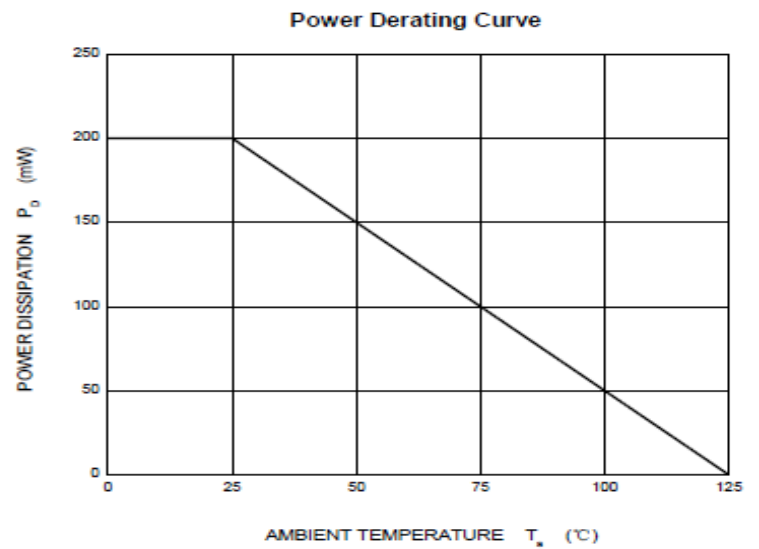
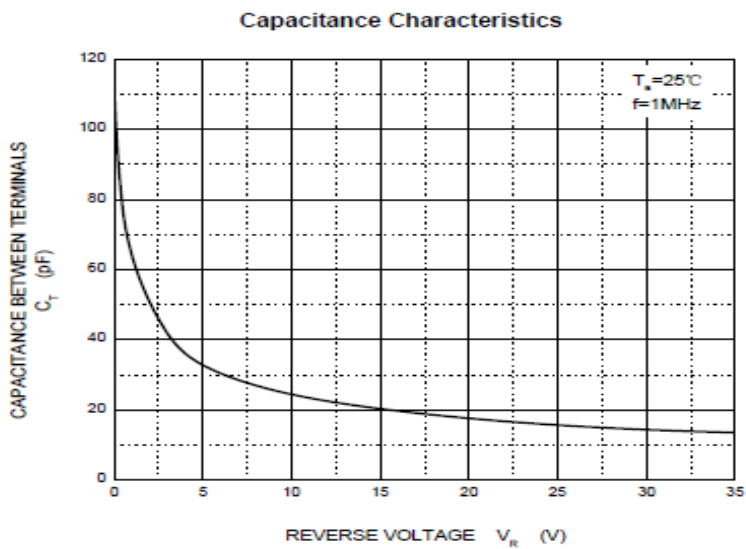
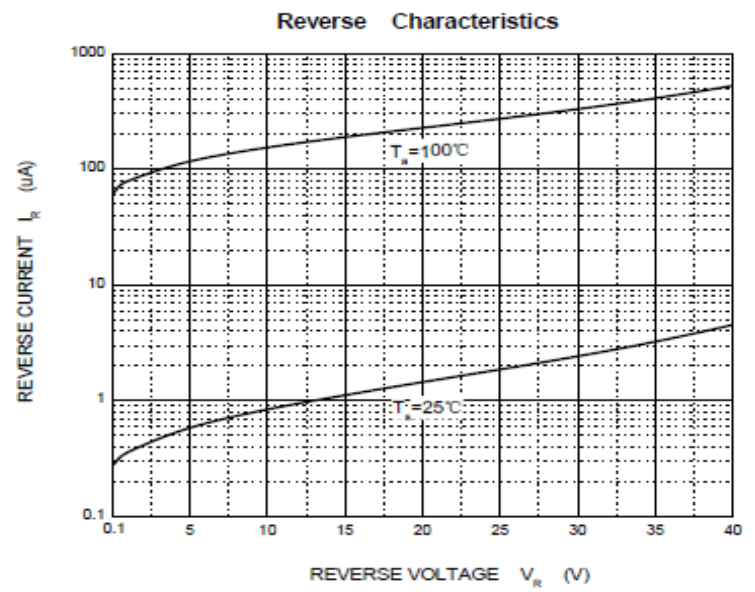
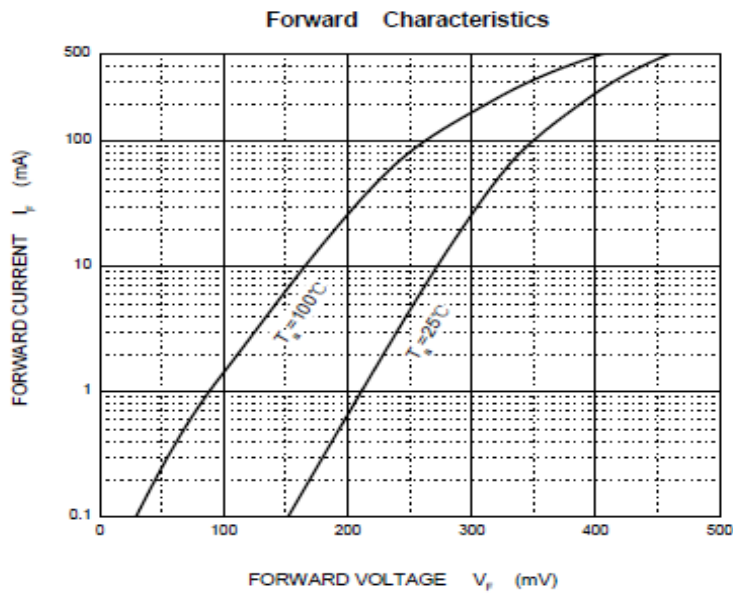
Note: Manufacture special control, if empty means no special control requirement.

<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**

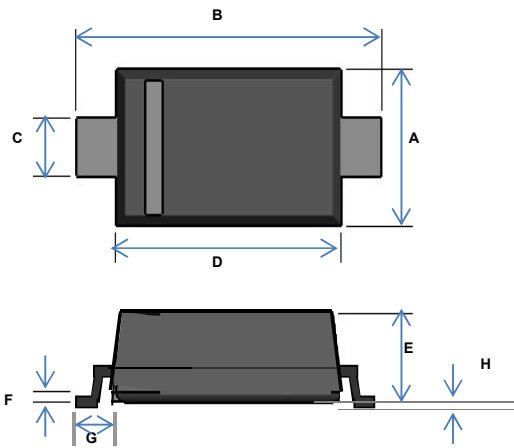
**RATINGS AND CHARACTERISTICS CURVES (RB551V-40)**

(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**

