



Micro Commercial Components



Micro Commercial Components  
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**RB551V-40**

## Features

- Halogen free available upon request by adding suffix "-HF"
- Marking: D4
- High Current Rectifier Schottky Diode
- Low Voltage, Low Inductance
- For Power Supply
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

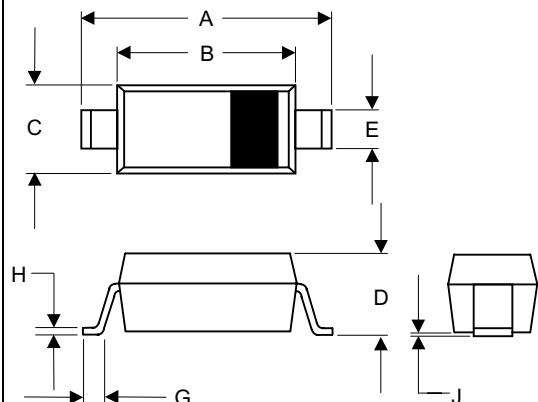
Symbol	Rating	Rating	Unit
$V_{RM}$	Peak Reverse Voltage	40	V
$I_o$	Continuous Forward Current	500	mA
$I_{FSM}$	Non-repetitive Forward Peak Surge Current	2	A
$P_d$	Power Dissipation	200	mW
$R_{thJA}$	Thermal Resistance Junction To Ambient	500	°C/W
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
<b>OFF CHARACTERISTICS</b>					
$V_F$	Forward Voltage ( $I_F=500\text{mA}$ )	---	---	0.47	Vdc
$V_{(BR)}$	Reverse Voltage ( $I_R=0.1\text{mA}$ )	40	---	---	Vdc
$I_R$	Reverse Current ( $V_R=40\text{Vdc}$ )	---	---	100	$\mu\text{A}$

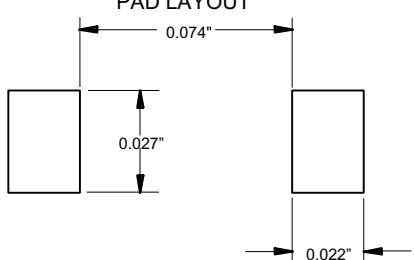
**500 mA  
Schottky Barrier Diode  
40 Volts**

**SOD-323**



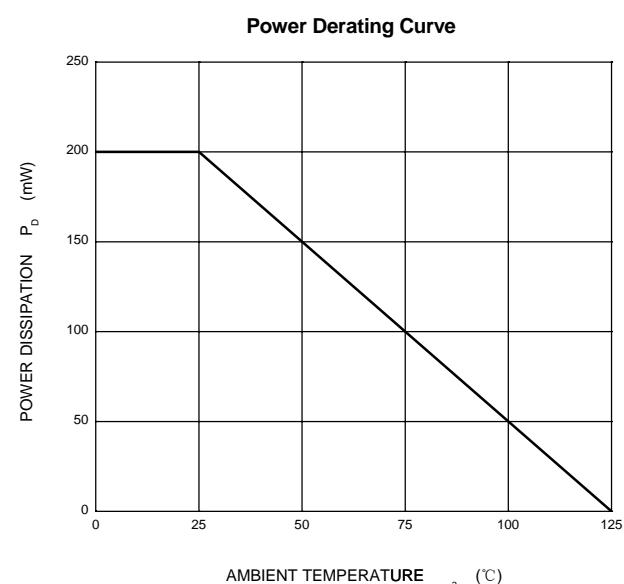
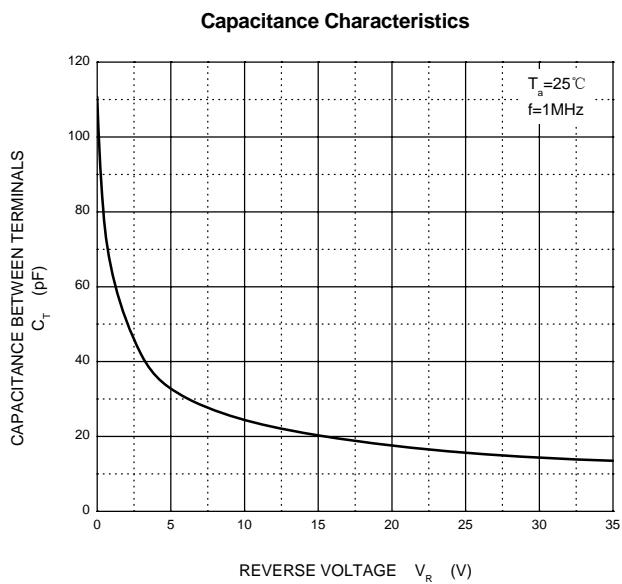
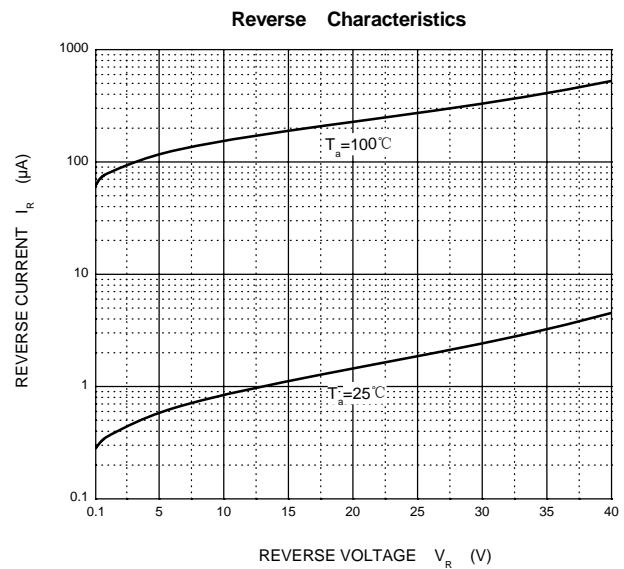
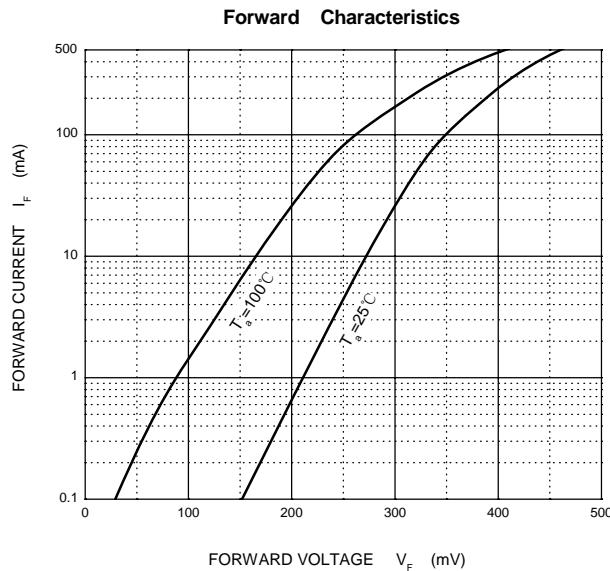
DIM	DIMENSIONS				NOTE
	INCHES	MM	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

### SUGGESTED SOLDER PAD LAYOUT



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## Typical Characteristics





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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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