

**Features**

- Halogen Free. "Green" Device (Note 1)
- 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**

- Operating Junction Temperature Range: 125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
RB551V-40	D4	40V	40V

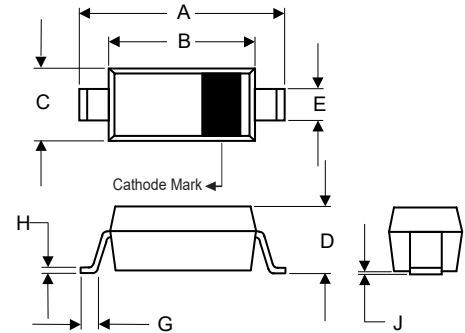
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Continuous Forward Current	$I_O$	500mA	
Non-repetitive Forward Peak Surge Current	$I_{FSM}$	2A	
Power Dissipation	$P_D$	200mW	
Forward Voltage	$V_F$	0.47V(Max)	$I_F=500mA;$
Reverse Voltage	$V_{(BR)}$	40V(Min)	$I_R=0.1mAdc$
Reverse Current	$I_R$	100µA(Max)	$V_R=40V$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

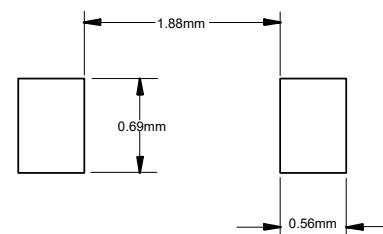
**500 mA  
Schottky  
Barrier Diode  
40 Volts**

**SOD-323**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

**Suggested Solder Pad Layout**



**Curve Characteristics**

Fig. 1 - Forward Characteristics

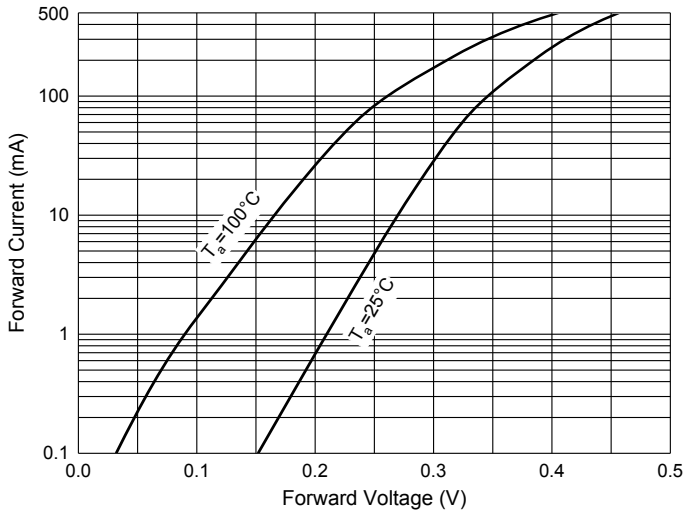


Fig. 2 - Reverse Characteristics

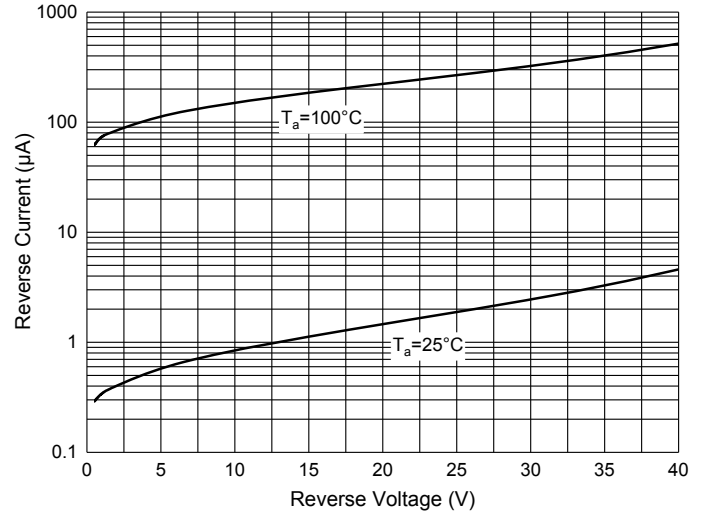


Fig. 3 - Capacitance Characteristics

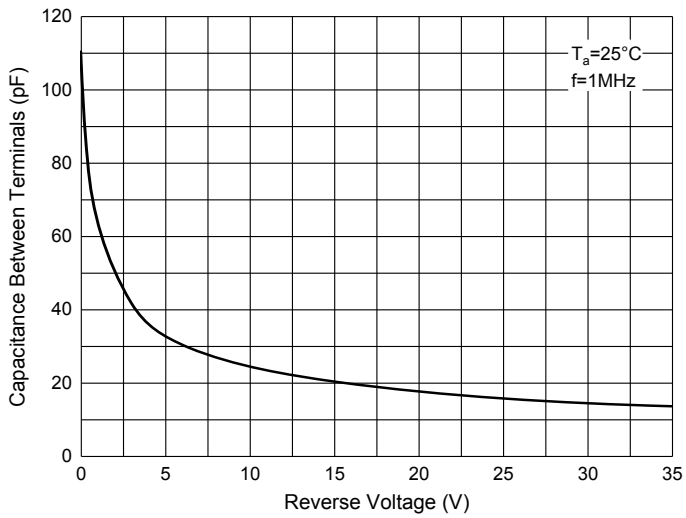
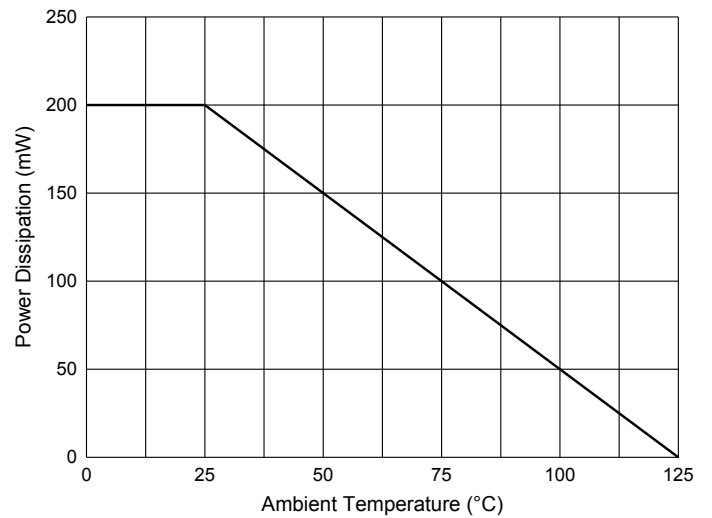


Fig. 4 - Power Derating Curve



## Ordering Information

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

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