



Micro Commercial Components



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RB551V-40

500 mA
Schottky Barrier Diode
40 Volts

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

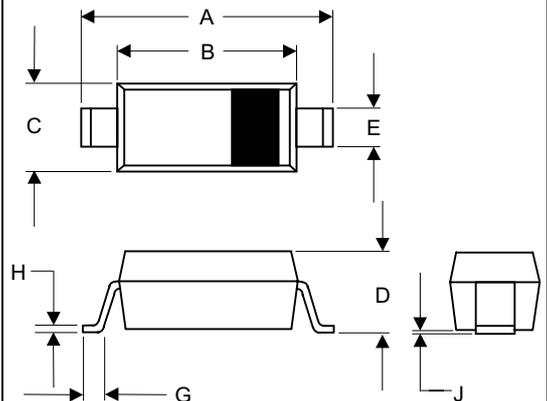
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

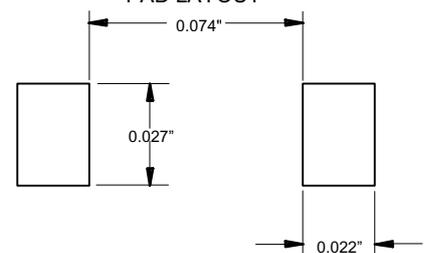
V_F	Forward Voltage ($I_F=500mA$)	---	---	0.47	Vdc
$V_{(BR)}$	Reverse Voltage ($I_R=0.1mA$)	40	---	---	Vdc
I_R	Reverse Current ($V_R=40V$)	---	---	100	μA

SOD-323



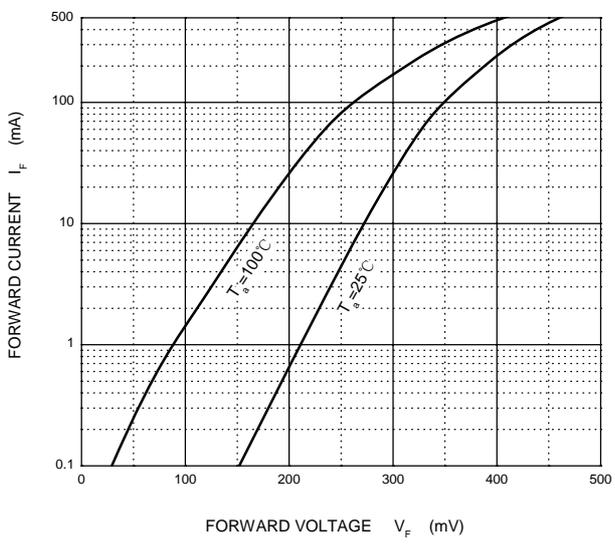
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT

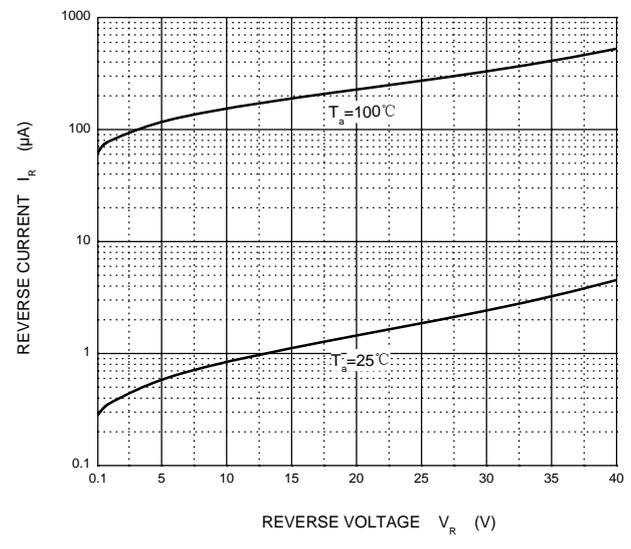


Typical Characteristics

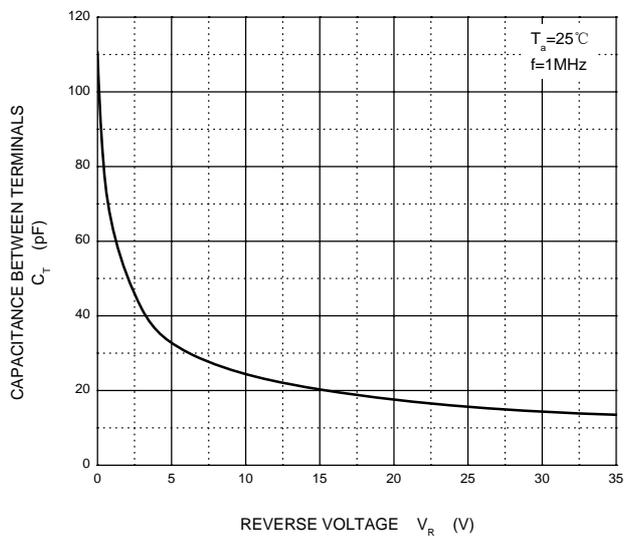
Forward Characteristics



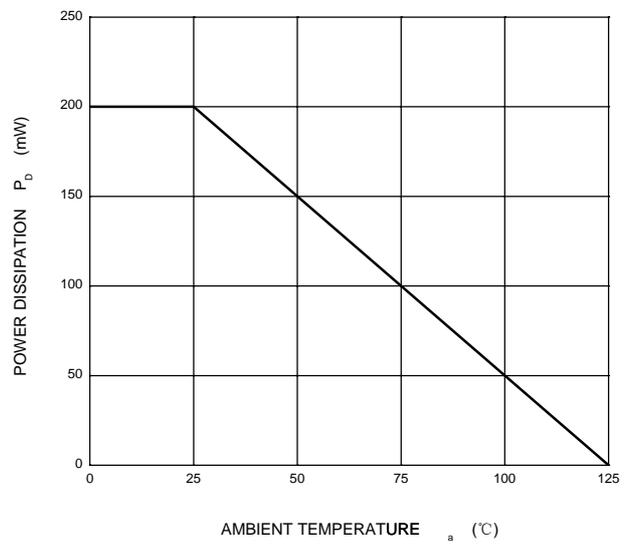
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve





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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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