



# RB520S-40

**200 mA**  
**Schottky Barrier Diode**  
**40 Volts**

## Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Reliability
- Low Reverse Current and Low Forward Voltage.
- Small Surface Mount Type
- Marking : D1
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

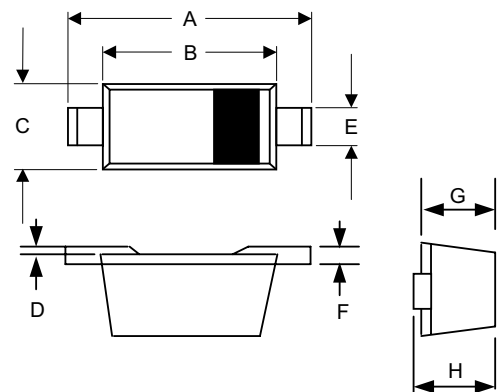
## Maximum Ratings

Symbol	Rating		Unit
$V_R$	DC Reverse Voltage	40	V
$I_O$	Mean Rectifying Current	200	mA
$I_{FSM}$	Peak Forward Surge Current@t=8.3ms	1	A
$P_D$	Power Dissipation	150	mW
$R_{thJA}$	Thermal Resistance Junction to Ambient	667	°C/W
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

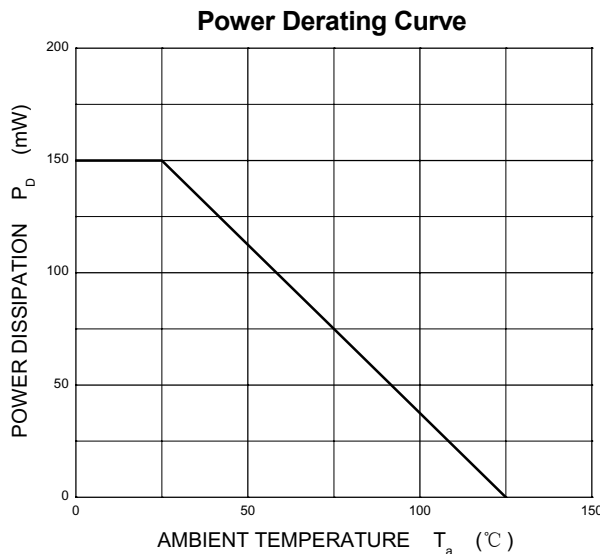
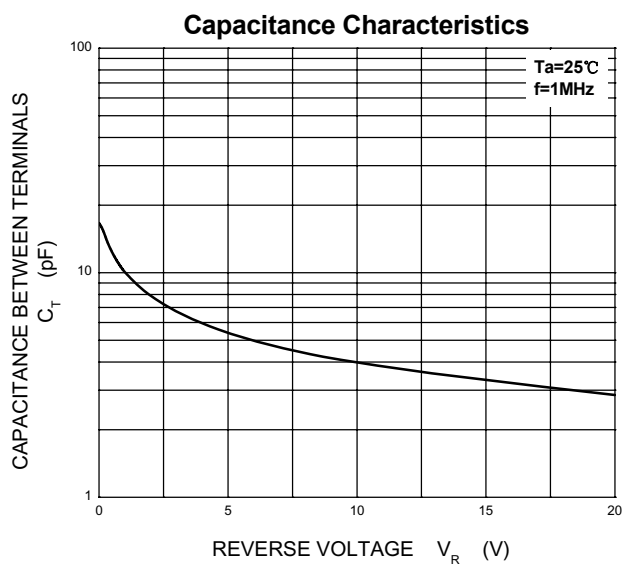
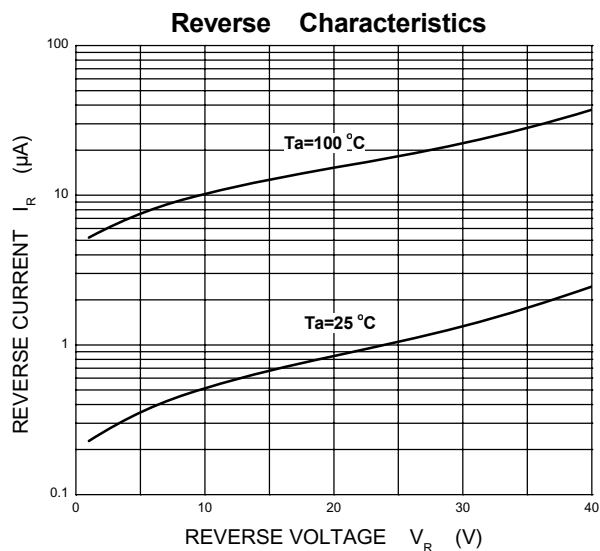
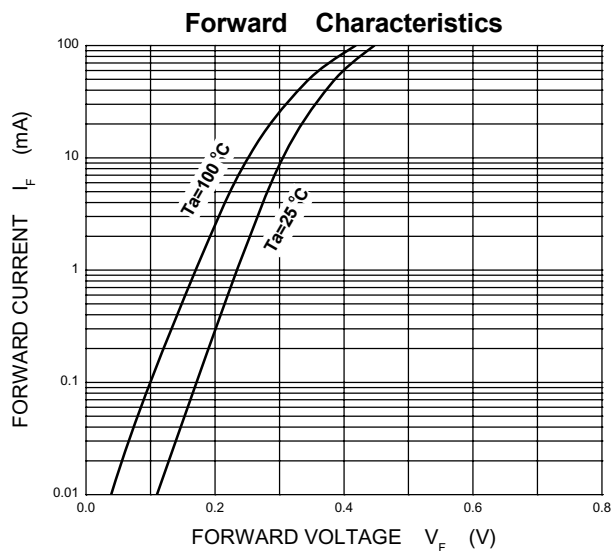
Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage @ $I_F=10mA$ @ $I_F=100mA$	$V_F$	---	0.30 0.45	0.39 0.55	V
Reverse Current @ $V_R=10V$ @ $V_R=40V$	$I_R$	---	0.6 2.8	1 10	$\mu A$

## SOD-523



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

# Typical Characteristics





**Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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

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