



Micro Commercial Components



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RB521S-40

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 :S
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Parameter	Value	Unit
V_{RM}	Non-repetitive peak reverse voltage	45	V
V_{RRM}	Peak repetitive reverse voltage	40	V
V_{RWM}	Working peak reverse voltage		
$V_{R(RMS)}$	RMS reverse voltage	28	V
I_O	Average rectified output current	200	mA
I_{FSM}	Non-repetitive peak forward surge current @t=8.3ms	1	A
P_D	Power dissipation	150	mW
$R_{\theta JA}$	Thermal resistance from junction to ambient	667	°C/W
T_J	Junction temperature	125	°C
T_{stg}	Storage temperature	-55~+150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

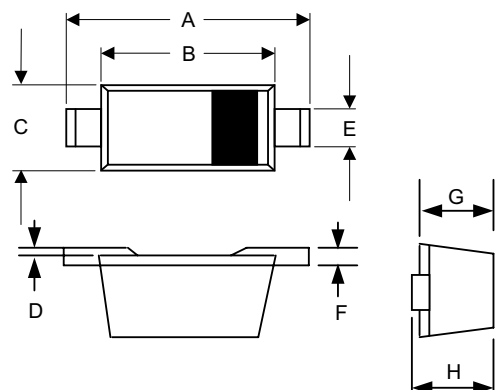
Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

V_F	Forward Voltage ($I_F=10mA$)	≤ 0.35	--	0.35	Vdc
	($I_F=100mA$)	≤ 0.45	--	0.45	Vdc
	($I_F=200mA$)	≤ 0.55	--	0.55	Vdc
I_R	Reverse Current ($V_R=10V$)	---	---	20	μA
	($V_R=40V$)	---	---	90	μA
$V_{(BR)}$	Reverse Breakdown Voltage ($I_R=100\mu A$)	40	--	---	Vdc

200 mA Schottky Barrier Diode 40 Volts

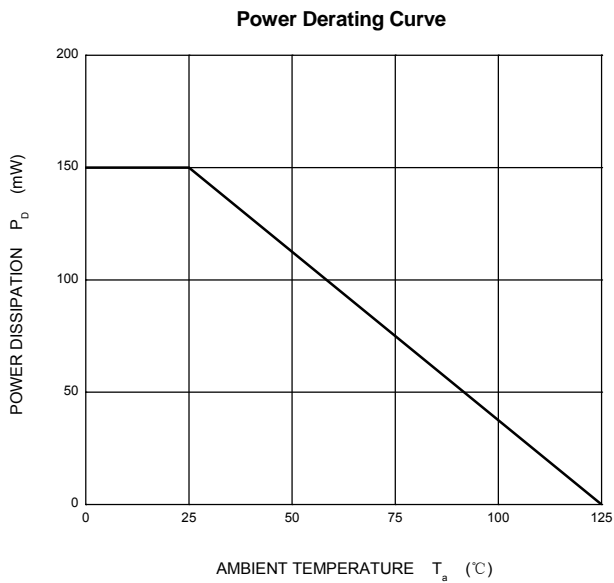
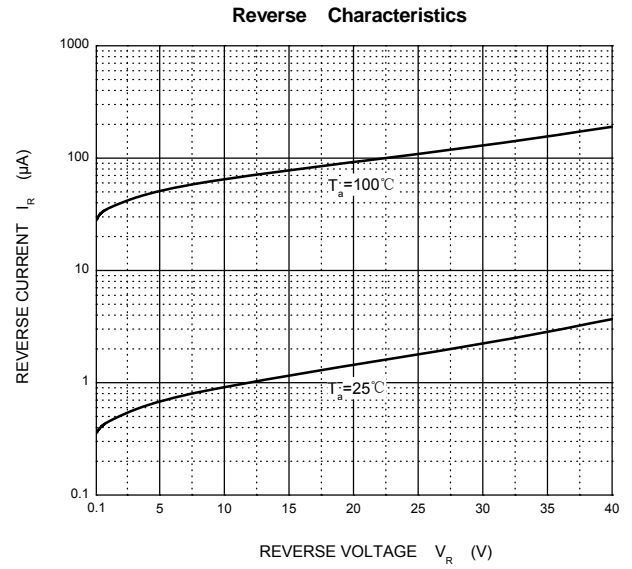
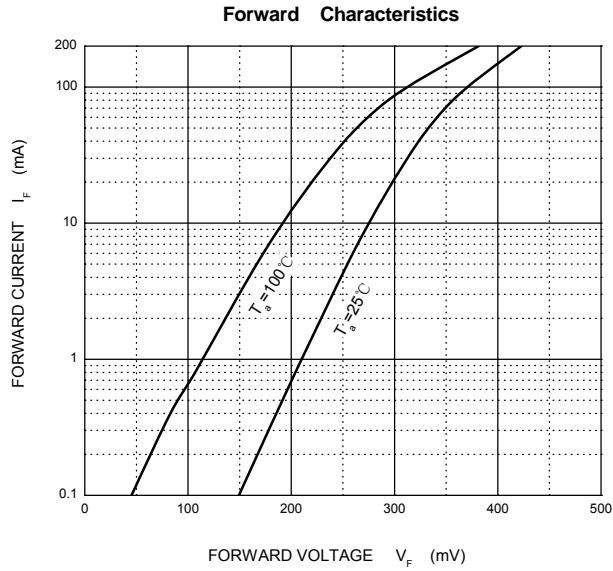
SOD-523



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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	

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●Electrical characteristic curves (Ta=25°C)





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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