



# RB520S-30DP

## 100 mA Schottky Barrier Diode 30 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 : A
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

### Maximum Ratings

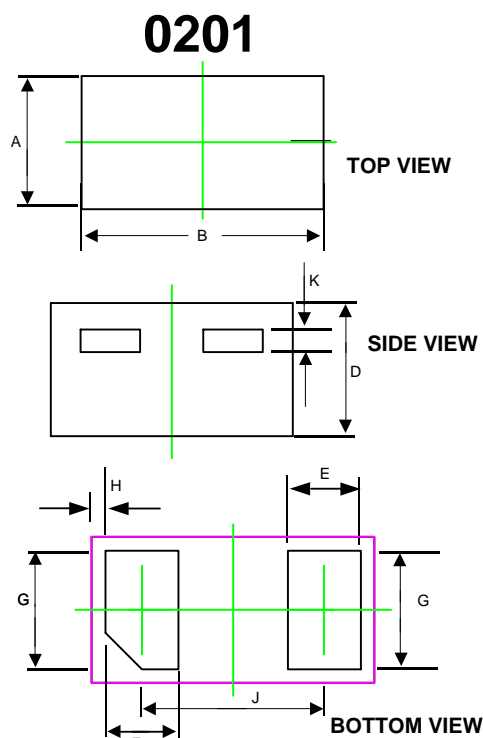
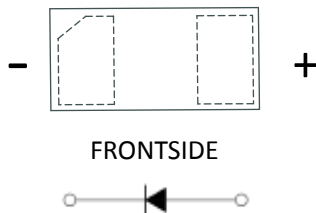
Symbol	Rating	Rating	Unit
$V_R$	Repetitive Peak Reverse Voltage	30	V
$V_{R(RMS)}$	RMS Reverse Voltage	21	V
$I_O$	Mean Rectifying Current	100	mA
$I_{FSM}$	Non-Repetitive Peak forward Surge Current @ $t=8.3ms$ , half sine wave	500	mA
$P_d$	Power Dissipation	100	mW
$R_{thJA}$	Thermal Resistance from Junction to Ambient	1000	$^{\circ}C/W$
$T_J$	Junction Temperature	125	$^{\circ}C$
$T_{STG}$	Storage Temperature	-55 to +125	$^{\circ}C$

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

Symbol	Parameter	Min	Typ	Max	Units
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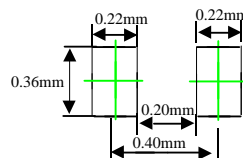
#### OFF CHARACTERISTICS

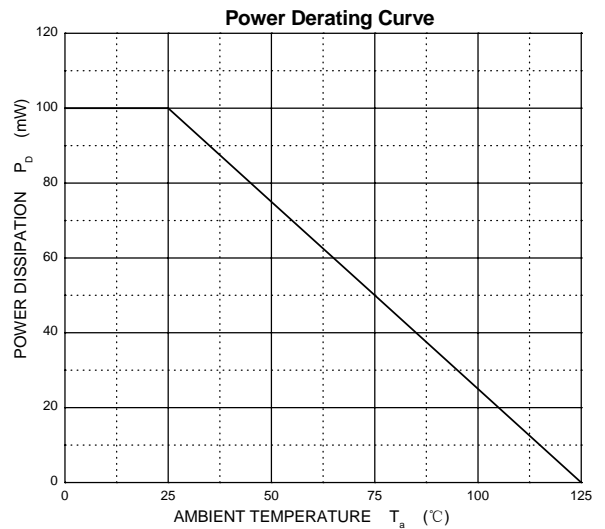
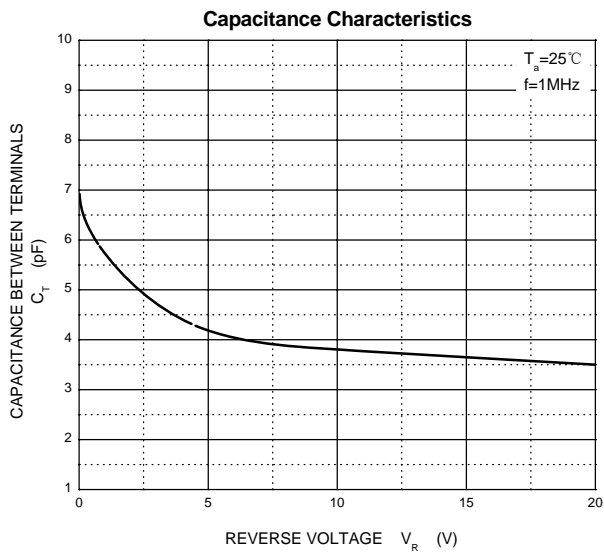
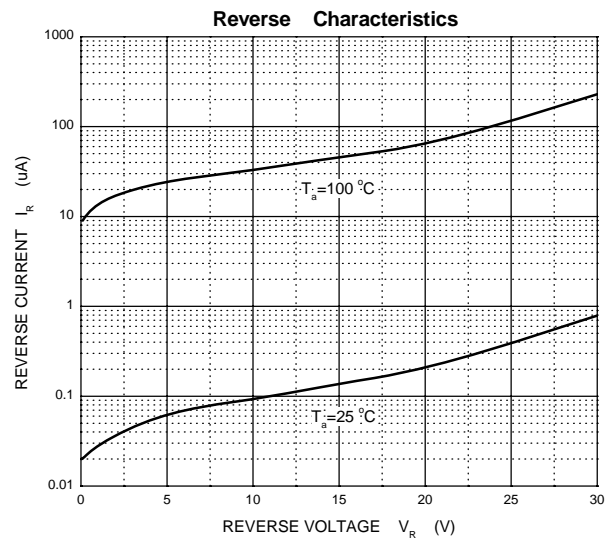
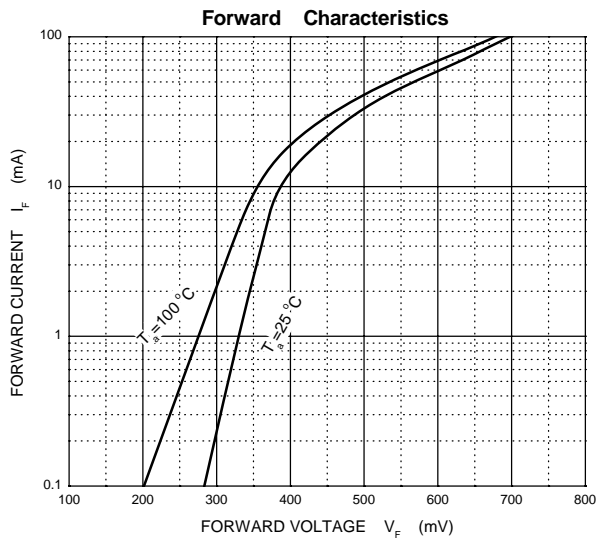
$V_F$	Forward Voltage ( $I_F=10mA$ ) ( $I_F=100mA$ )	---	---	0.45	Vdc
		---	---	0.85	Vdc
$I_R$	Reverse Current ( $V_R=10Vdc$ ) ( $V_R=30Vdc$ )	---	---	0.3	$\mu A$
		---	---	20	$\mu A$
$V_{(BR)}$	Reverse Breakdown Voltage ( $I_R=50\mu A$ )	30	---	---	Vdc



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.011	0.015	0.27	0.37	
B	0.022	0.026	0.57	0.67	
D	0.011	0.013	0.275	0.34	
E	0.005	0.008	0.125	0.195	
G	0.009	0.012	0.225	0.295	
H	0.001 REF.		0.030 REF.		
J	0.014	0.017	0.365	0.435	
K	0.002 REF.		0.050 REF.		

#### SUGGESTED SOLDER PAD LAYOUT







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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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

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