

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**M·C·C·**

Micro Commercial Components



Micro Commercial Components  
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Phone: (818) 701-4933  
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**RB521S-30DP****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
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking: F

**Maximum Ratings**

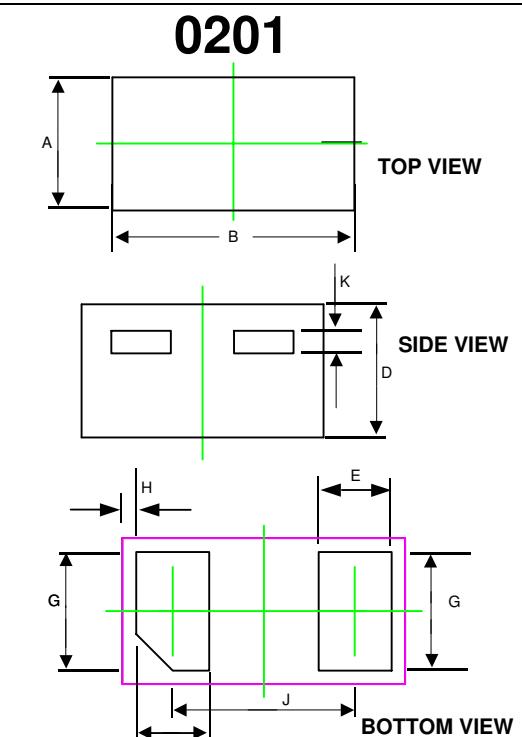
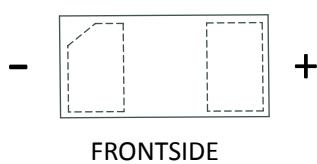
Symbol	Rating	Rating	Unit
$V_{RM}$	Repetitive Peak Reverse Voltage	30	V
$V_{R(RMS)}$	RMS Reverse Voltage	21	V
$I_o$	Mean Rectifying Current	100	mA
$I_{FSM}$	Non-Repetitive Peak forward Surge Current@ $t=8.3\text{ms}$ , half sine wave	500	mA
$P_d$	Power Dissipation	100	mW
$R_{thJA}$	Thermal Resistance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

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

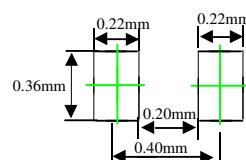
Symbol	Parameter	Min	Typ	Max	Units
$V_F$	Forward Voltage ( $I_F=10\text{mA}$ ) ( $I_F=100\text{mA}$ )	---	---	0.38 0.80	Vdc Vdc
$I_R$	Reverse Current ( $V_R=10\text{Vdc}$ ) ( $V_R=30\text{Vdc}$ )	---	---	10 50	uAdc uAdc
$V_{(BR)}$	Reverse Breakdown Voltage ( $I_R=50\text{uA}$ )	30	---	---	Vdc

**OFF CHARACTERISTICS**

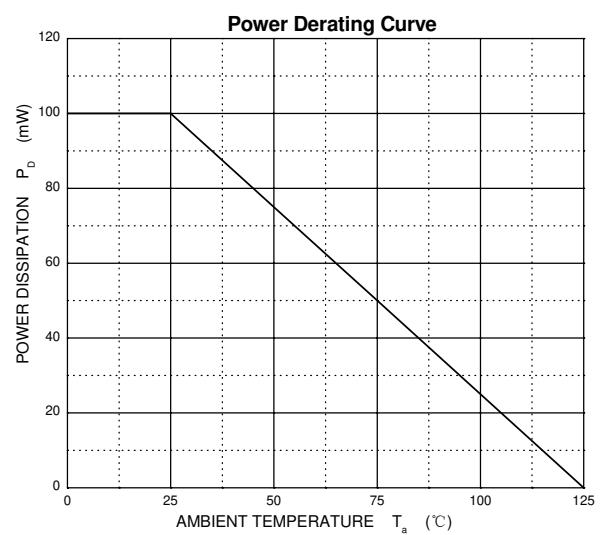
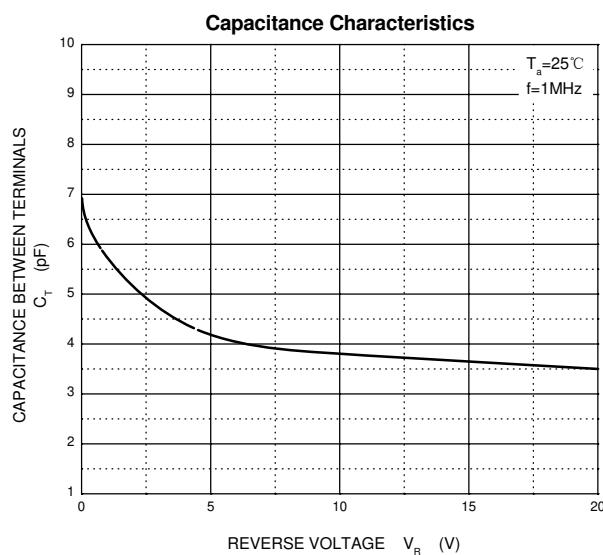
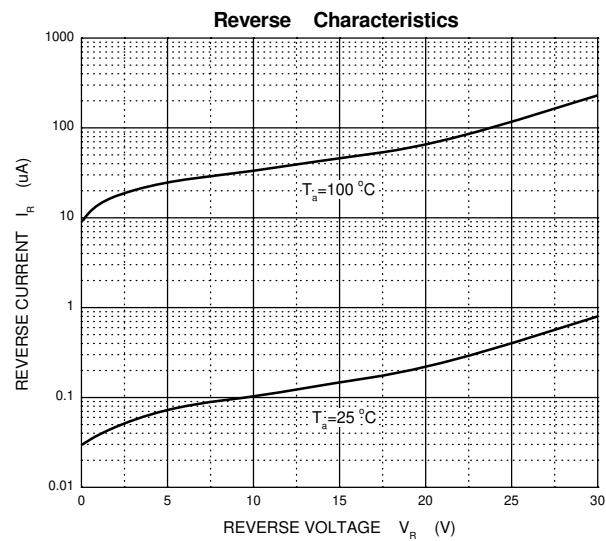
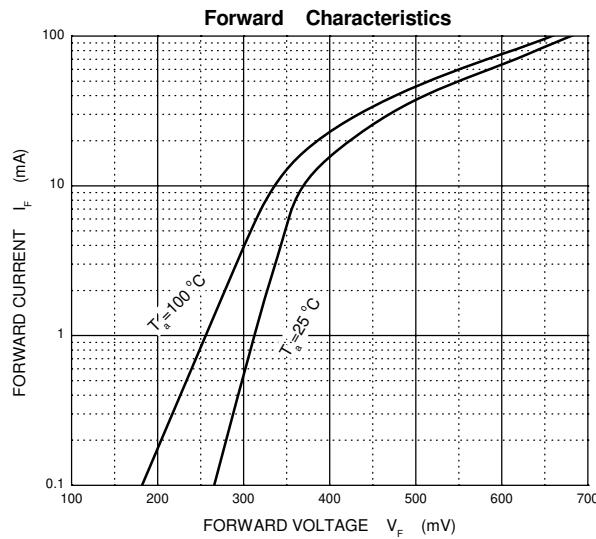
Symbol	Parameter	Min	Typ	Max	Units
$V_F$	Forward Voltage ( $I_F=10\text{mA}$ ) ( $I_F=100\text{mA}$ )	---	---	0.38 0.80	Vdc Vdc
$I_R$	Reverse Current ( $V_R=10\text{Vdc}$ ) ( $V_R=30\text{Vdc}$ )	---	---	10 50	uAdc uAdc
$V_{(BR)}$	Reverse Breakdown Voltage ( $I_R=50\text{uA}$ )	30	---	---	Vdc



DIM	INCHES		MM		NOTE
	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	0.002REF.		0.050REF.		

**SUGGESTED SOLDER PAD LAYOUT**

# RB521S-30DP



<sup>TM</sup>

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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

### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

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