

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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Micro Commercial Components



Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

**B5819XP**

## Features

- Low forward voltage drop
- 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)
- Halogen free available upon request by adding suffix "-HF"
- Marking: AD



## Maximum Ratings

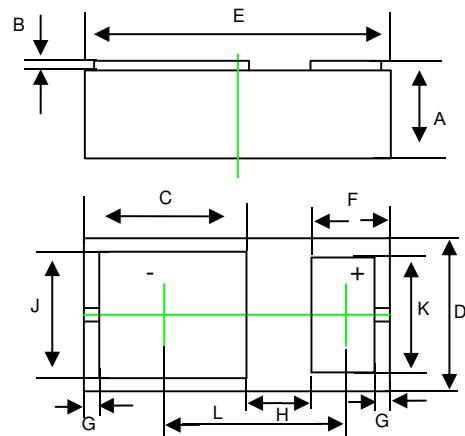
Symbol	Rating	Rating	Unit
$V_{RWM}$	Working Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
$I_O$	Mean Rectifying Current	1.0	A
$I_{FSM}$	Peak Forward Surge Current@ $t<8.3ms$	5.0	A
$P_D$	Power Dissipation	150	mW
$R_{thJA}$	Thermal Resistance from Junction to Ambient	667	$^{\circ}\text{C}/\text{W}$
$T_J$	Junction Temperature	125	$^{\circ}\text{C}$
$T_{STG}$	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)}$	Reverse Voltage ( $I_R=10\mu\text{A}$ )	40	---	---	$\mu\text{A}$
$I_R$	Reverse Current ( $V_R=40\text{Vdc}$ )	---	---	50	$\mu\text{A}$
$V_F$	Forward Voltage ( $I_F=0.5\text{A}$ ) ( $I_F=0.7\text{A}$ )	---	0.47	---	Vdc
$V_F$	Forward Voltage ( $V_R=1\text{Vdc}; f=1\text{MHz}; T_j=25^{\circ}\text{C}$ ) ( $V_R=10\text{Vdc}; f=1\text{MHz}; T_j=25^{\circ}\text{C}$ )	---	0.55	---	Vdc
$C_D$	Forward Voltage ( $V_R=1\text{Vdc}; f=1\text{MHz}; T_j=25^{\circ}\text{C}$ ) ( $V_R=10\text{Vdc}; f=1\text{MHz}; T_j=25^{\circ}\text{C}$ )	50	---	---	pF
$t_{rr}$	Reverse Recovery Time ( $I_F=I_R=10\text{mA}; R_L=100\Omega; I_{R(meas)}=1\text{mA}$ )	---	15	---	ns

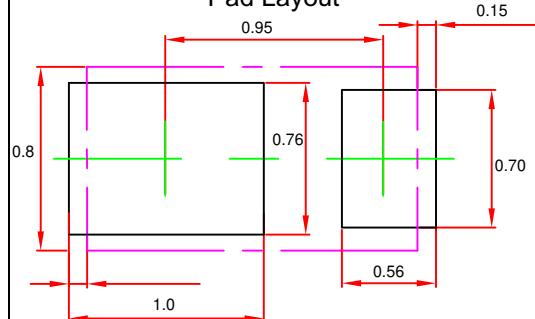
**1.0 A  
Schottky Rectifier  
40 Volts**

**FBP-02L**



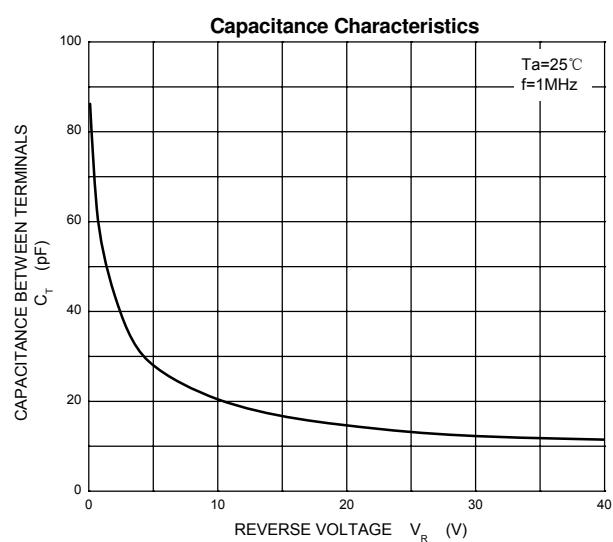
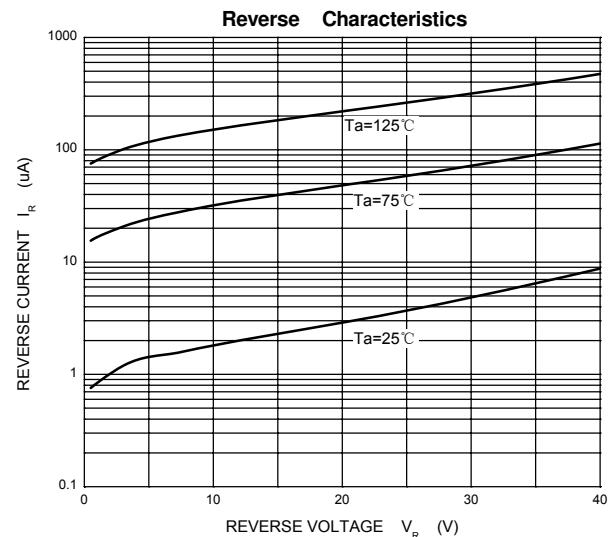
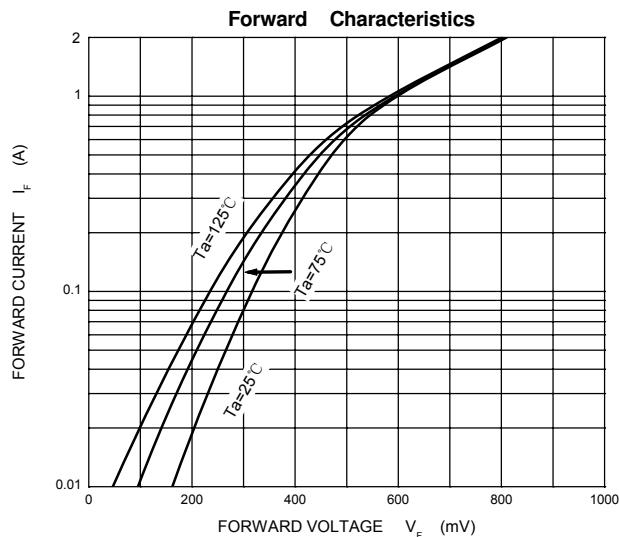
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.004	0.01	0.09	
C	0.033REF.		0.850REF.		
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.016 REF.		0.410 REF.		
G	0.003 REF.		0.080 REF.		
H	0.013 REF.		0.340 REF.		
J	0.024	0.030	0.60	0.76	
K	0.020	0.027	0.52	0.68	
L	0.035	0.039	0.90	1.00	

### Suggested Solder Pad Layout (mm)



**WWW.mccsemi.com**

## Typical Characteristics





Micro Commercial Components

## 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.