



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

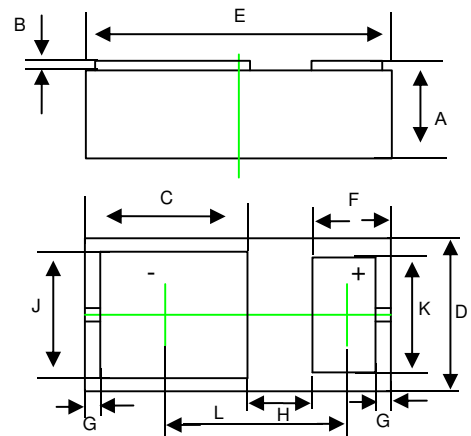
Symbol	Rating	Rating	Unit
$V_{RWM}$	Working Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
$I_O$	Mean Rectifying Current	1.0	A
$I_{FSM}$	Peak Forward Surge Current@t<8.3ms	5.0	A
$P_D$	Power Dissipation	150	mW
$R_{thJA}$	Thermal Resistance from Junction to Ambient	667	°C/W
$T_J$	Junction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

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)}$	Reverse Voltage ( $I_R=10\mu A$ )	40	---	---	$\mu A$
$I_R$	Reverse Current ( $V_R=40V$ )	---	---	50	$\mu A$
$V_F$	Forward Voltage ( $I_F=0.5A$ ) ( $I_F=0.7A$ )	---	0.47	---	Vdc Vdc
$C_D$	Forward Voltage ( $V_R=1V$ ;f=1MHz; $T_J=25^\circ C$ ) ( $V_R=10V$ ;f=1MHz; $T_J=25^\circ C$ )	---	50 20	---	pF pF
$t_{rr}$	Reverse Recovery Time ( $I_F=I_R=10mA$ ; $R_L=100\Omega$ ; $I_{R(meas)}=1mA$ )	---	15	---	ns

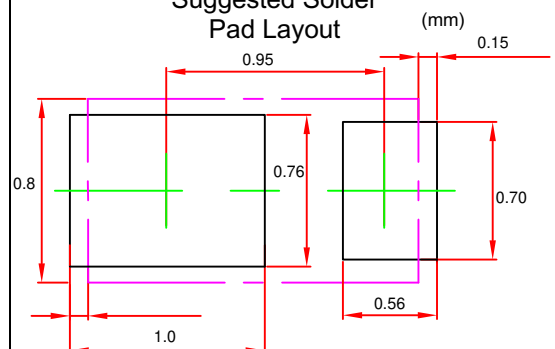
**1.0 A**  
**Schottky Rectifier**  
**40 Volts**

**FBP-02L**

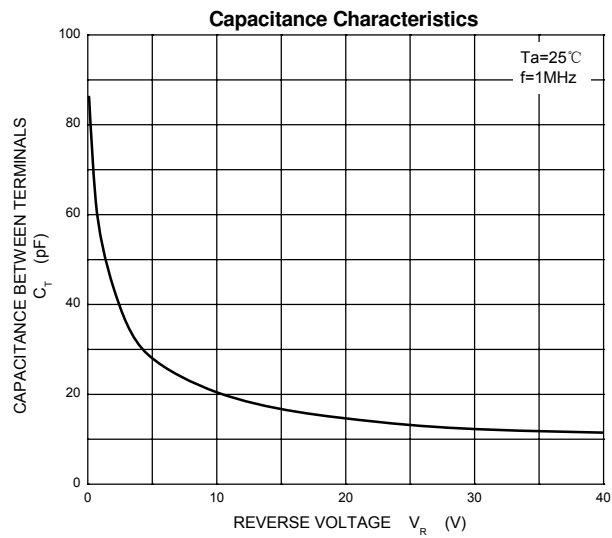
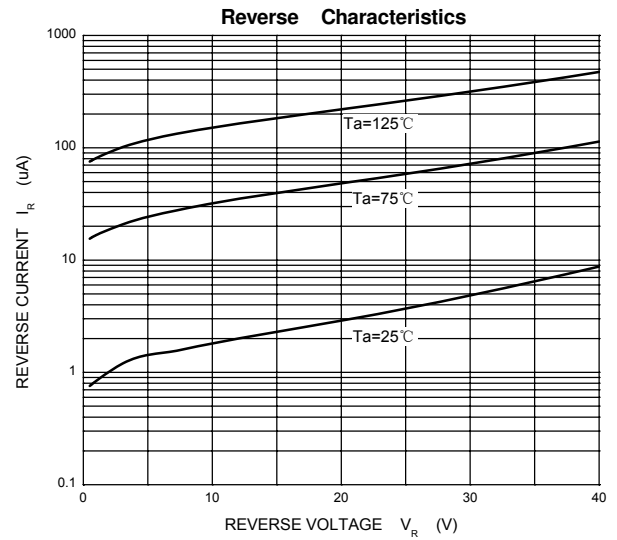
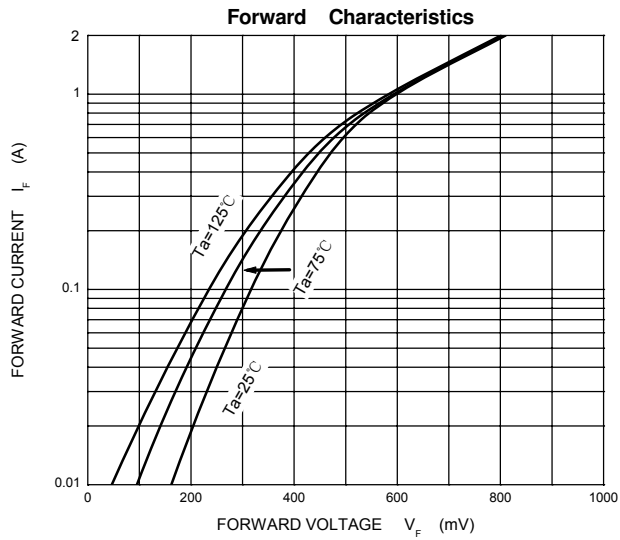


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.004	0.01	0.09	
C	0.033 REF.		0.850 REF.		
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.016 REF.		0.410 REF.		
G	0.003 REF.		0.080 REF.		
H	0.013 REF.		0.340 REF.		
J	0.024	0.030	0.60	0.76	
K	0.020	0.027	0.52	0.68	
L	0.035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

**Suggested Solder  
Pad Layout**



## Typical Characteristics



## 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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