



Micro Commercial Components



Micro Commercial Components
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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

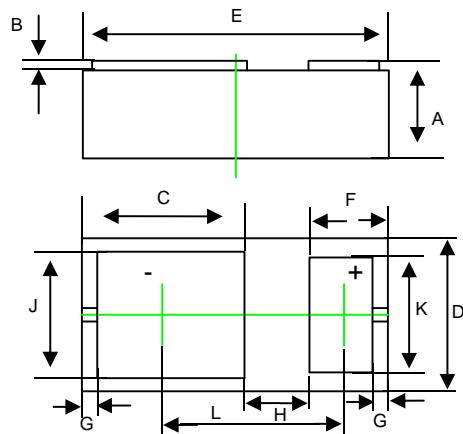
Symbol	Rating	Rating	Unit
V_{RWM}	Working Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_O	Mean Rectifying Current	1.0	A
I_{FSM}	Peak Forward Surge Current@ $t < 8.3\text{ms}$	5.0	A
P_D	Power Dissipation	150	mW
R_{thJA}	Thermal Resistance from Junction to Ambient	667	$^{\circ}\text{C}/\text{W}$
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	---	---	μA
I_R	Reverse Current ($V_R=40\text{Vdc}$)	---	---	50	μA
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

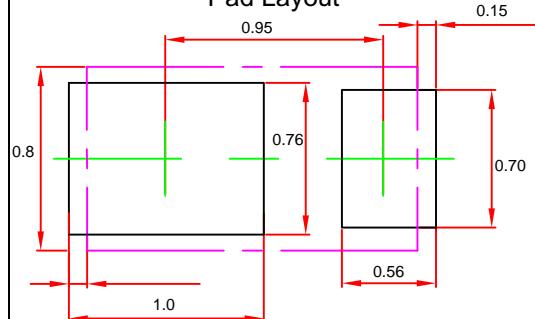
1.0 A
Schottky Rectifier
40 Volts

FBP-02L

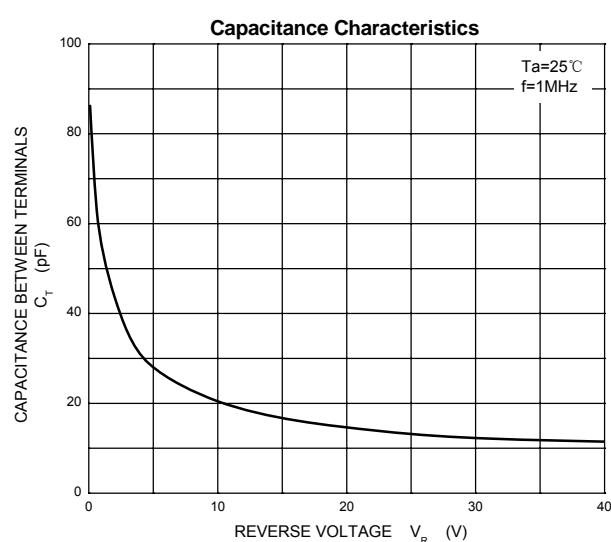
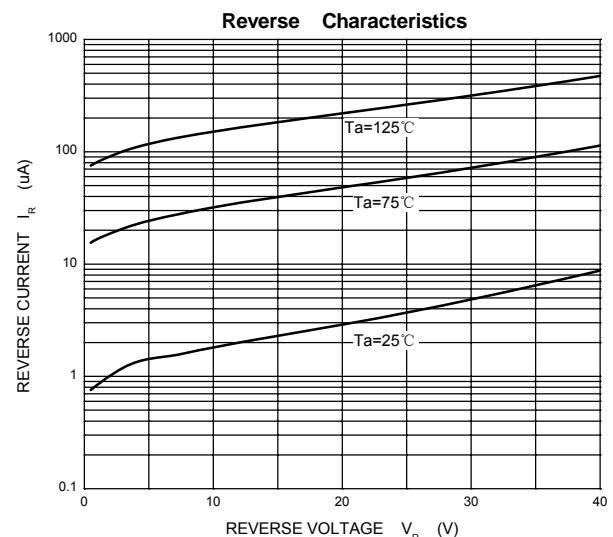
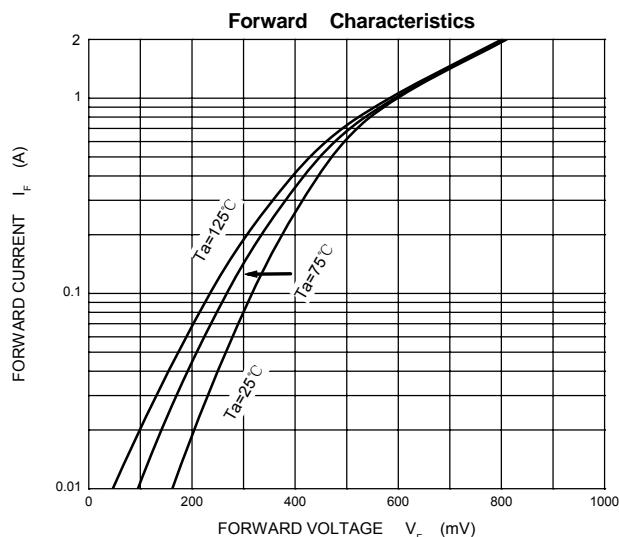


DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.004	0.01	0.09	
C	0.033REF.		0.850REF.		
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.016 REF.		0.410 REF.		
G	0.003 REF.		0.080 REF.		
H	0.013 REF.		0.340 REF.		
J	0.024	0.030	0.60	0.76	
K	0.020	0.027	0.52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

Suggested Solder Pad Layout (mm)



Typical Characteristics





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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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