Micro Commercial Components

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B5819XP

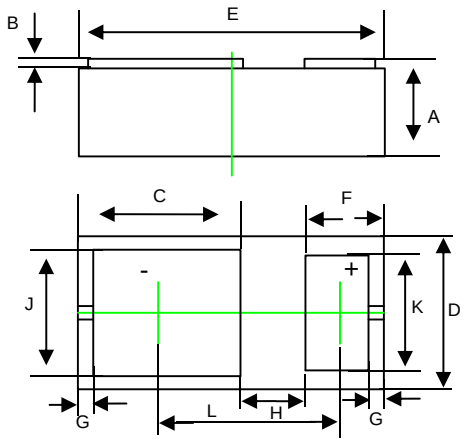
1.0 A
Schottky Rectifier
40 Volts

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

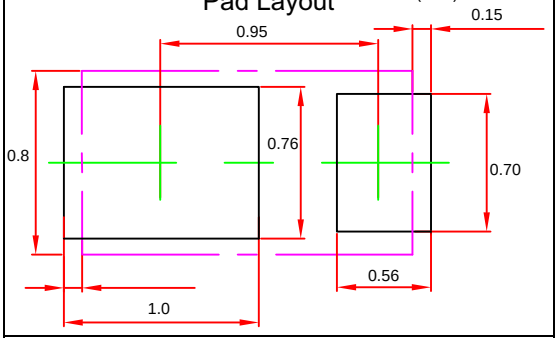


FBP-02L



DIMENSIONS					
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	0.033REF.		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)



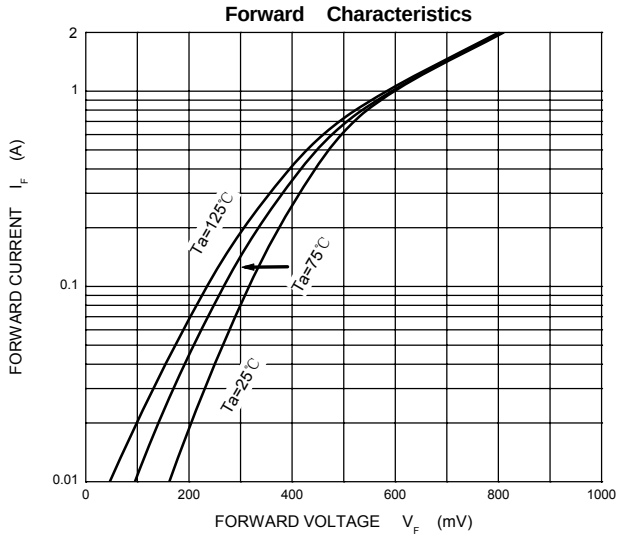
Maximum Ratings

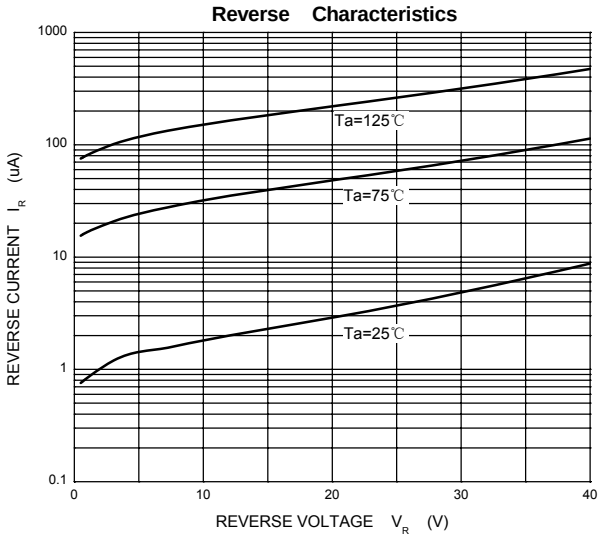
Symbol	Rating	Rating	Unit
V_{RWM}	Working Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_O	Mean Rectifying Current	1.0	A
I_{FSM}	Peak Forward Surge Current@t<8.3ms	5.0	A
P_D	Power Dissipation	150	mW
R_{thJA}	Thermal Resistance from Junction to Ambient	667	℃/W
T_J	Junction Temperature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

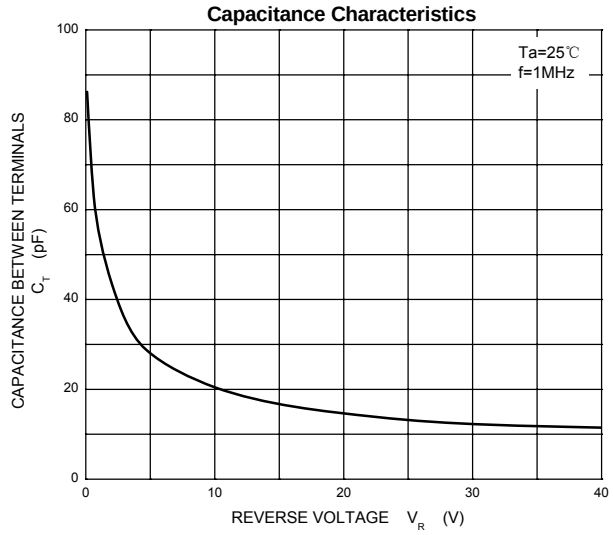
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)}$	Reverse Voltage (I_R=10μAdc)	40	---	---	μAdc
I_R	Reverse Current (V_R=40Vdc)	---	---	50	μAdc
V_F	Forward Voltage (I_F=0.5Adc) (I_F=0.7Adc)	--- ---	0.47 ---	--- 0.55	Vdc Vdc
C_D	Forward Voltage (V_R=1Vdc;f=1MHz;Tj=25°C) (V_R=10Vdc;f=1MHz;Tj=25°C)	--- ---	50 20	--- ---	pF pF
t_{rr}	Reverse Recovery Time (I_F=I_R=10mA;R_L=100;$I_{R(meas)}$=1mA)	---	15	---	ns

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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