



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **B5819XP**

- · 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

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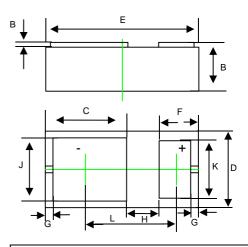
Symbol	Rating	Rating	Unit
V_{RWM}	Working Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I _o	Mean Rectifying Current	1.0	Α
I _{FSM}	Peak Forward Surge Current@t<8.3ms	5.0	Α
P _D	Power Dissipation	150	mW
R_{thJA}	Thermal Resistance from Junction to Ambient	667	°C/W
TJ	Junction Temperature	125	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified Symbol Parameter Min Typ Max Units

oy moon	i aramotor		.,,,,	max	Oc
$V_{(BR)}$	Reverse Voltage (I _R =10uAdc)	40			uAdc
I _R	Reverse Current (V _R =40Vdc)			50	uAdc
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 $(I_F=I_R=10\text{mA};R_L=100;I_{R(meas)}=1\text{mA})$		15		ns

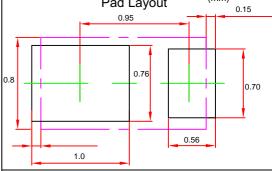
1.0 A Schottky Rectifier 40 Volts

FBP-02L



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIE
A	0.018	0.022	0.45	0.55	
В	0.000	0.004	0.01	0.09	
C	0.033	REF.	0.8501	REF.	
D	0.030	0.033	0.75	0.85	
Е	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	

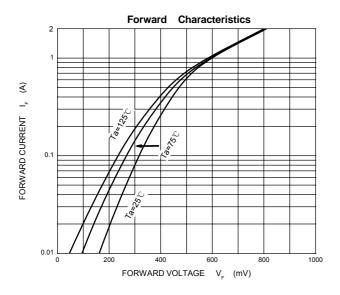
Suggested Solder Pad Layout

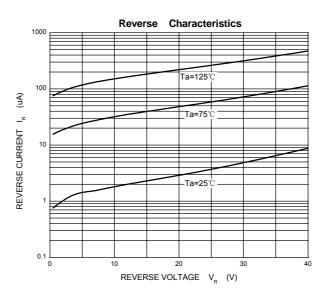


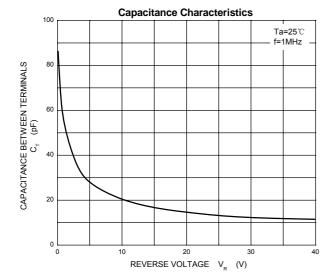
www.mccsemi.com



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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