



Micro Commercial Components



Micro Commercial Components
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B58195XP

Features

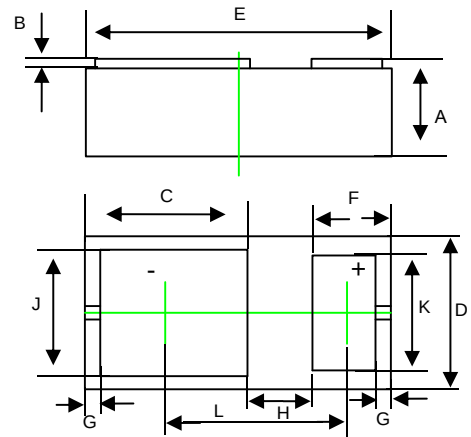
- Low forward voltage drop
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Marking: BD



1.5 A

Schottky Rectifier
40 Volts

FBP-02L



Maximum Ratings

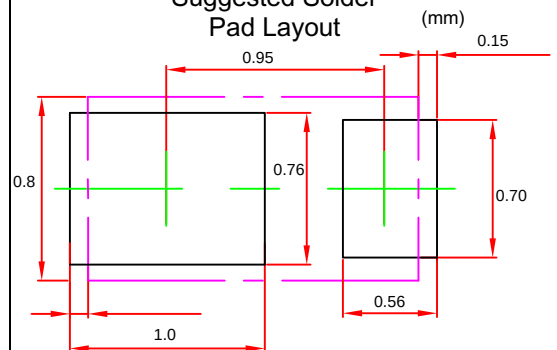
Symbol	Rating	Rating	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_O	Average Rectified Output Current	1.5	A
I_{FSM}	Peak Forward Surge Current @ $t < 8.3ms$	8.0	A
P_D	Power Dissipation	150	mW
R_{thJA}	Thermal Resistance from Junction to Ambient	667	$^{\circ}C/W$
T_J	Junction Temperature	125	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)}$	Reverse Voltage ($I_R=250\mu A$)	40	---	---	Vdc
I_R	Reverse Current ($V_R=20Vdc$) ($V_R=40Vdc$)	---	---	40 50	μA μA
V_F	Forward Voltage ($I_F=0.5A$) ($I_F=1.0A$) ($I_F=1.5A$)	---	---	0.40 0.45 0.58	Vdc Vdc Vdc
C_d	Diode Capacitance ($V_R=0Vdc; f=1MHz$)	---	180	---	pF

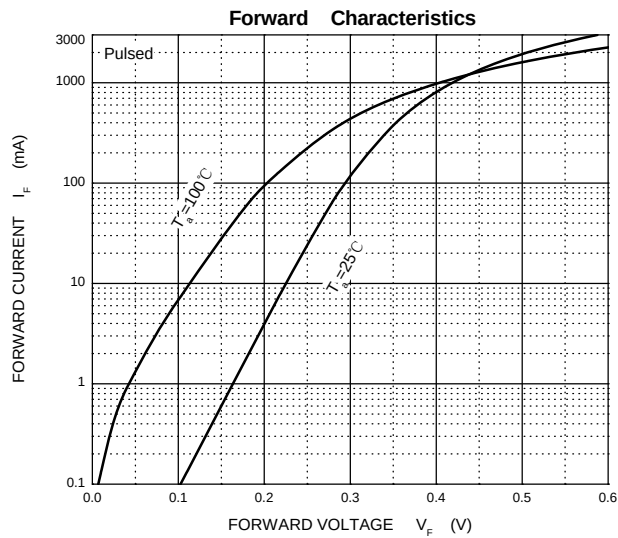
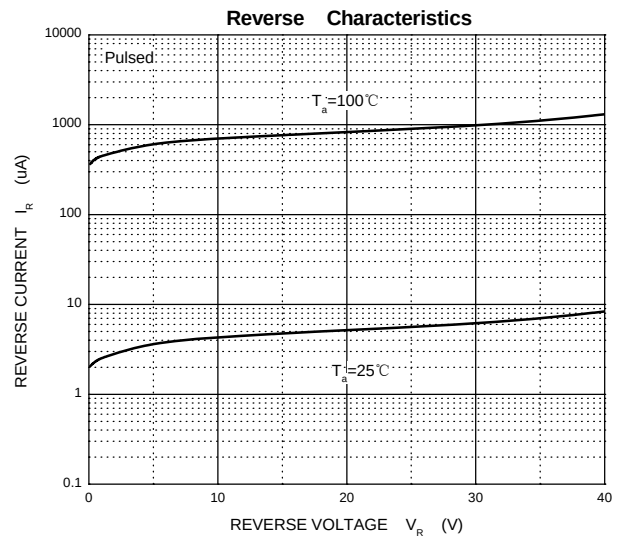
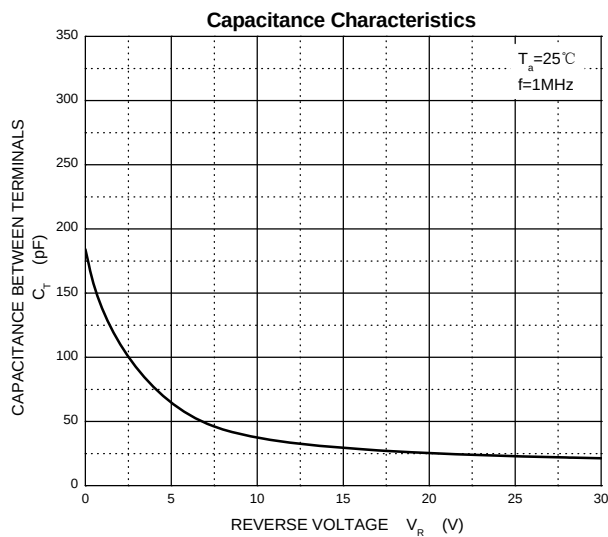
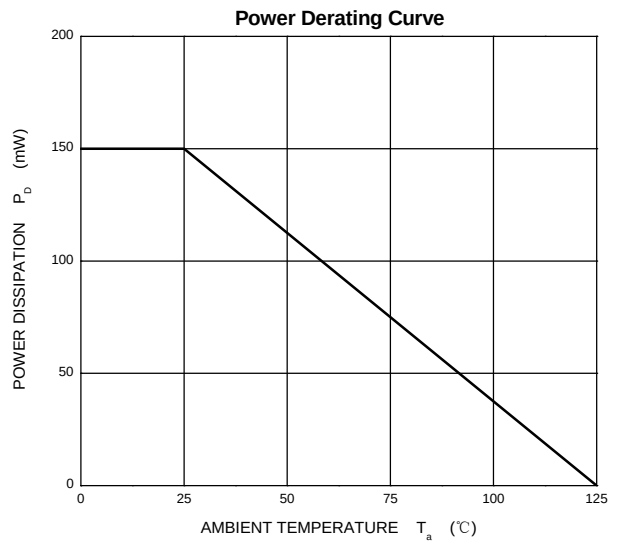
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.004	0.01	0.09	
C	0.033 REF.		0.850 REF.		
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.016 REF.		0.410 REF.		
G	0.003 REF.		0.080 REF.		
H	0.013 REF.		0.340 REF.		
J	0.024	0.030	0.60	0.76	
K	0.020	0.027	0.52	0.68	
L	0.035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

Suggested Solder Pad Layout



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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