

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Forward Voltage Drop
- Lead Free Finish/Rohs Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance :667°C/W Junction to Ambient

Parameter	Symbol	Rating	Units
Peak Repetitive Reverse Voltage	V_{RRM}	40	Vdc
Working Peak Reverse Voltage	V_{RWM}	40	Vdc
RMS Reverse Voltage	$V_{R(RMS)}$	28	Vdc
Average Rectified Output Current	I_O	1.0	Adc
Peak Forward Surge Current @t<8.3ms	I_{FSM}	5.0	Adc
Power Dissipation	P_d	150	mW

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

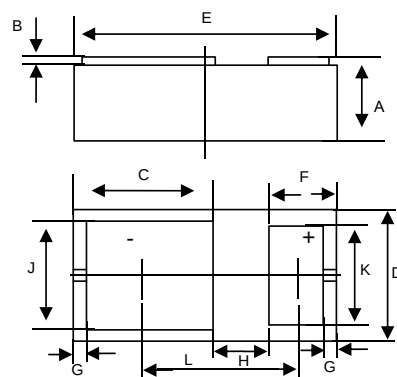
Device Marking: AD

Internal Structure:



1.0 A Schottky Barrier Rectifier 40 Volts

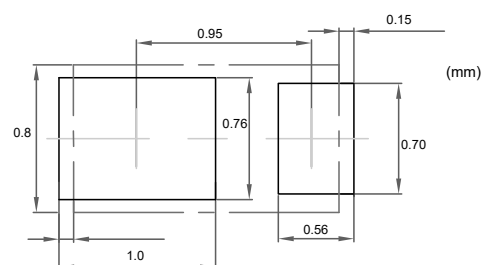
FBP-02L



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



Curve Characteristics

Fig. 1 - Forward Characteristics

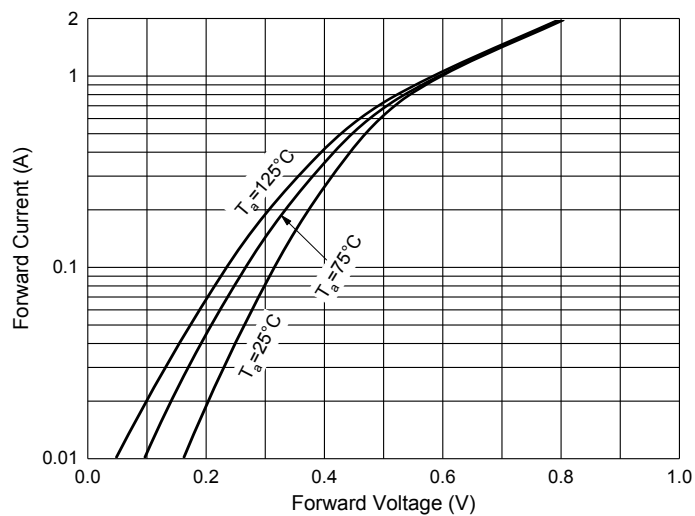


Fig. 2 - Reverse Characteristics

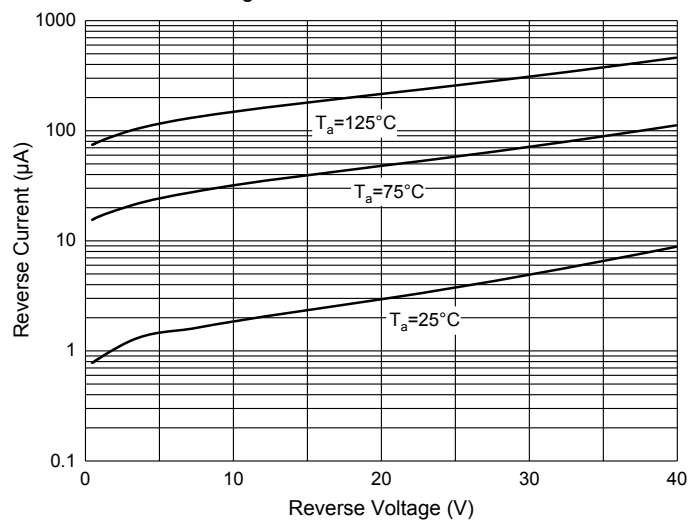


Fig. 3 - Capacitance Characteristics

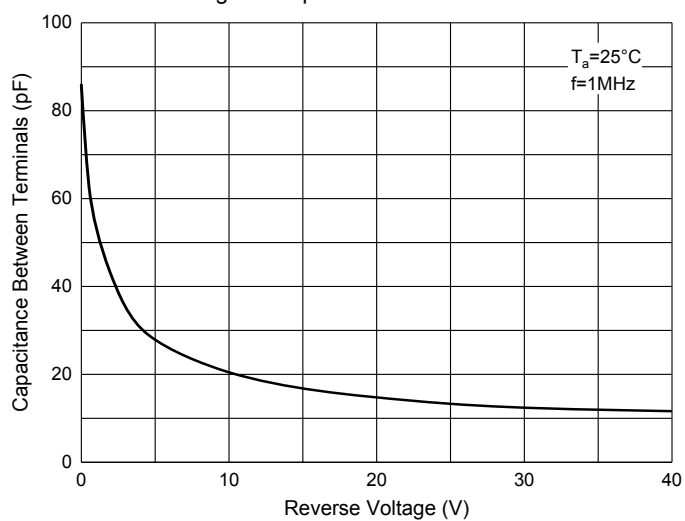
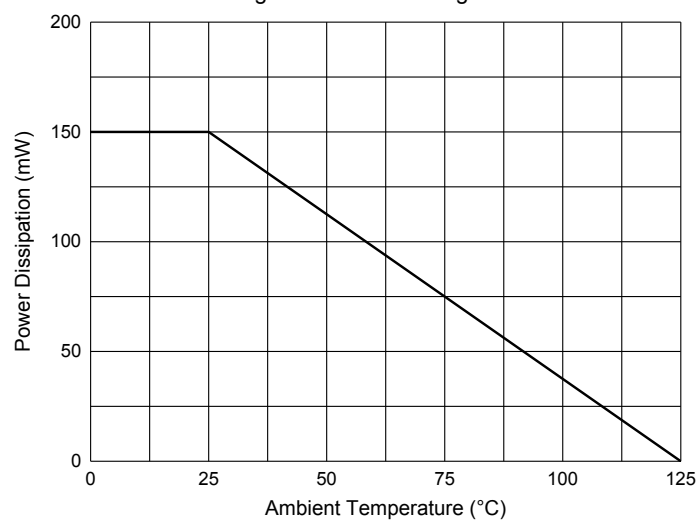


Fig. 4 - Power Derating Curve



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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