

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	Ι _ο	1.0	Adc
Peak Forward Surge Current @t<8.3ms	I _{FSM}	5.0	Adc
Power Dissipation	P _d	150	mW

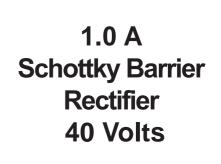
Electrical Characteristics @ 25°C Unless Otherwise Specified

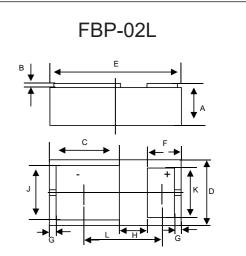
Parameter	Symbol	Min	Тур	Max	Units
Reverse Breakdown Voltage (I _R =10µA)	V _(BR)	40			Vdc
Forward Voltage					
(I _F =0.5Adc)	V _F		0.47		
(I _F =0.7Adc)				0.55	Vdc
Reverse Current					
(V _R =40Vdc)	I _R			50	µAdc
Diode Capacitance					
(V _R =1Vdc, f=1MHz,T _J =25°C)	C _D		50		pF
(V _R =10Vdc, f=1MHz,T _J =25°C)	- 0		20		Ы
Reverse Recovery Time	t _{rr}		15		ns
$(I_F=I_R=10mAdc, R_L=100, I_{R(MEAS)}=1mA)$	'n		13		115

Device Marking: AD

Internal Structure:

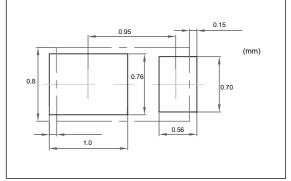






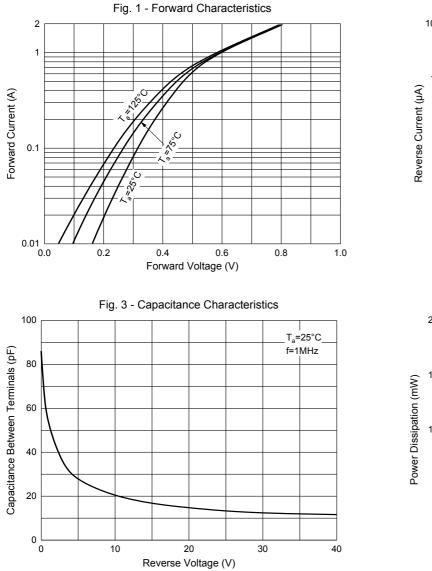
DIMENSIONS					
DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.018	0.022	0.45	0.55	
В	0.000	0.004	0.01	0.09	
С	0.033	BREF.	0.850	REF.	
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.016	REF.	0.410	REF.	
G	0.003 REF.		0.080 REF.		
Н	0.013	REF.	0.340	REF.	
J	0.024	0.030	0.60	0.76	
K	0.020	0.027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

Suggested Solder Pad Layout





Curve Characteristics



1000 T_a=125°C 100 T_a=75°C 10 T_a=25° 1 0.1 0 10 20 30 40 Reverse Voltage (V) Fig. 4 - Power Derating Curve 200 150 100 50 0 L 0 25 50 75 100 125 Ambient Temperature (°C)

Fig. 2 - Reverse 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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