

ULTRAFAST PLASTIC RECTIFIER

UF4001 - 4007



DO-41 (Plastic) Axial Lead Plastic Package

For use in Very High Frequency Switching Power Supplies, Inverters and as Free Wheeling Diodes

ABSOLUTE MAXIMUM RATINGS

ABSOLUTE MAXIMUM HATINGS	IMOM HATINGO								
DESCRIPTION	SYMBOL	UF 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Forward Rectified Current 0.375" (9.5mm) Lead Length @ T _a =55°C	I _{F (AV)}				1.0				А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}				30				Α
Junction to Ambient in free air	*R _{th (j-a)}				60				ºC/W
Junction to Lead	R _{th (j-L)}				15				ºC/W
Operating Junction and Storage Temperature Range	T_j , T_{stg}			- 5	55 to +1	50			ōC

^{*}Thermal Resistance from Junction to Ambient @ 0.375" (9.5mm) Lead Length

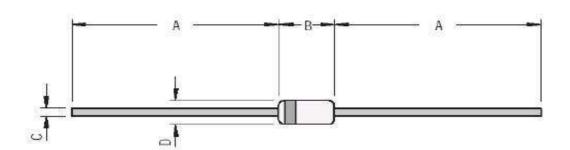
ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	Min	Тур	Max	UNIT
Instantaneous Forward Voltage	**V _F	I _F =1.0A				
		UF4001 - 4004			1.0	V
		UF4005 - 4007			1.7	V
DC Reverse Current	I_	@ Rated DC Blocking				
Do neverse ourient	I _R	Voltage				
		T _a =25ºC			10	μΑ
		T _a =100ºC			50	μΑ
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A, I _{rr} =0.25A				
		UF4001 - 4004			50	ns
		UF4005 - 4007			75	ns
Junction Capacitance	C _j	$V_R = 4V$, $f = 1MHz$		17		рF

^{**}Pulse Test : 300μs Pulse Width, 1% Duty Cycle

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DO-41P Axial Plastic Package

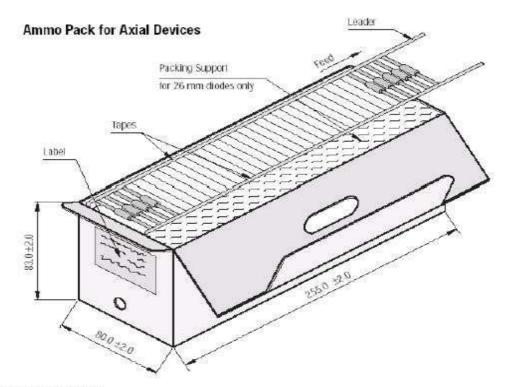


DIM	Min	Max
Α	25.40	
В	4.20	5.20
С	0.70	0.90
D	2.00	2.70

All Dimensions are in mm



DO-41P Package and Packaging AMMO PACKING FOR DO-41P



All Dimensions are in mm

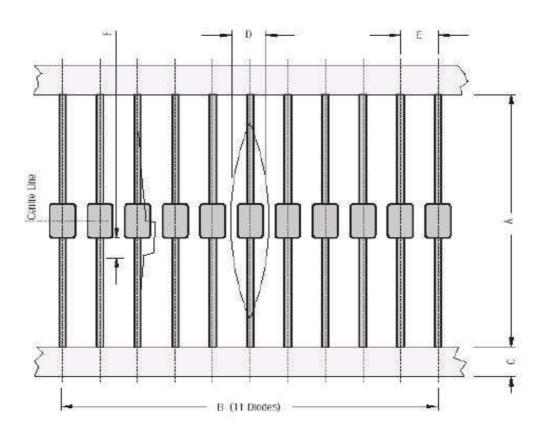
Packaging Information

Package/	Packaging Type	Std. Packing		Inner Carto	n		Outer Car	ton
Case Type		Qty	Qty	Size L x W x H	Gross Weight	Qty	Size L x W x H	Gross Weight
A SECTION AND SEC		-3600	2 71000	(cm)	(Kg)		(cm)	(Kg)
DO-41P	T&A	5,000	5K	27 x 8 x 14	1.96	45K	46 x 35 x 25	17.5

T & A: Tape and Ammo Pack

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DO-41P Package and Packaging



D	DO-41P 52 mm Tape					
DIM	Min	Max				
A	50.0	54.0				
В	95.0	105.0				
С	5.60	6.50				
D		1.5R				
E	9.50	10.50				
F		1.25				

All Dimensions are in mm

TAPE SPECIFICATIONS

- 1. 300 mm (Min) leader tape on every roll.
- 2. No. of empty places allowed 0.25% without consecutive empty places.
- 3. Ends of leads shall normally not protrude beyond the tapes.
- Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

Customer Notes UF4001 - 4007

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Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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