





ULTRAFAST RECOVERY RECTIFIERS



UF5400 - UF5408

DO-201AD (Plastic)

Axial Lead Plastic Package

Ultrafast recovery time for high efficiency, Low forward voltage drop, High current capability, Low leakage High surge capability.

Absolute Maximum Ratings (Ratings at $T_A = 25^{\circ}$ C Unless Specified Otherwise, Single Phase, Half Wave Resistive or Inductive Load. For Capacitive Load, derate current by 20%.)

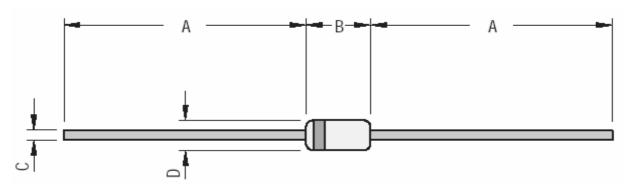
DESCRIPTION	SYMBOL	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Average Forward Rectified Current	1	0.0								۸	
0.375" (9.5mm) Lead Length at T _A =55°C	I _{F (AV)}	3.0								Α	
Peak Forward Surge Current, 8.3ms Single											
Half Sine-Wave Superimposed on	I _{FSM}	150.0							А		
Rated Load (JEDEC method)											
Maximum Forward Voltage @ 3.0A DC and	V _F			1.0				-1	.7		V
T _a =25°C	٧F			1.0				ı	.1		V
Maximum Reverse Current @ T _a =25°C	I_	10								^	
at Rated DC Blocking Voltage @ T _a =100°C	I _R	1000								μΑ	
Typical Junction Capacitance (Note 1)	CJ			45				3	36		рF
Typical Thermal Resistance (Note 2)	R _{th (j-a)}	20				°C/W					
Maximum Reverse Recovery Time (Note 3)	t _{rr}			50				7	⁷ 5		ns
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-55 to +150					°C				

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0 VDC.
- 2. Thermal Resistance Junction to Ambient and from Junction to Lead at 0.375" (9.5mm) lead length P.C.B. mounted with 0.8" x 0.8" (20mm x 20mm) copper pads.
- 3. Reverse Recovery Test Conditions $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$.

DO-201AD Axial Leaded Plastic Package

DO-201AD Axial Plastic Package



Cathode is marked by a Band

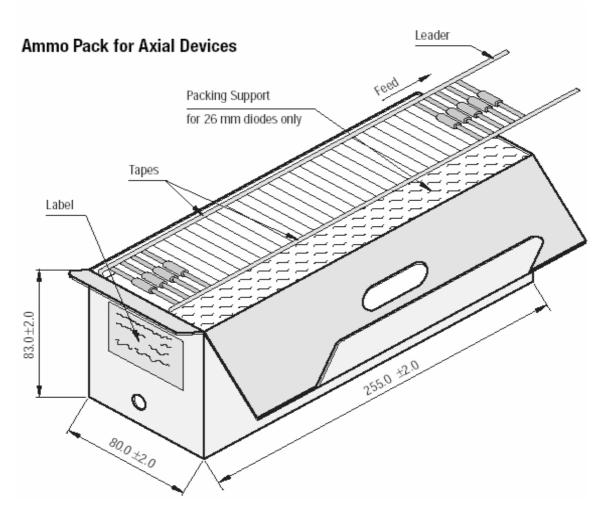
DIM	Min	Max
Α	25.40	
В	8.50	9.50
С	1.20	1.30
D	5.00	5.60

All Dimensions are in mm



DO-201AD

AMMO PACKING FOR DO-201AD



All Dimensions are in mm

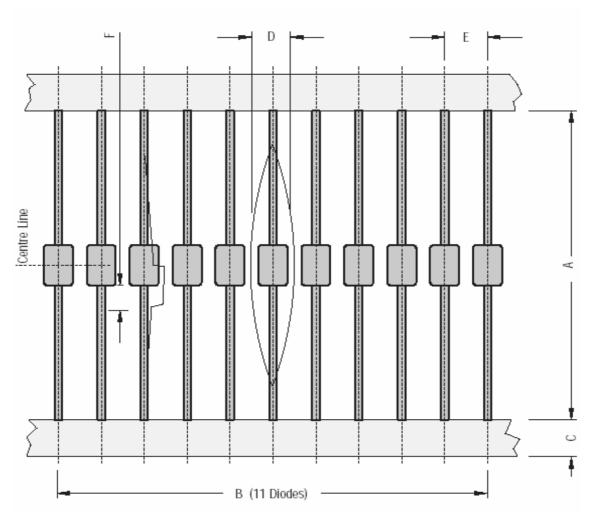
Packaging Information

Package/	Packaging Type	Std. Packing	Inner Carton				Outer Carton			
Case Type		Qty	Qty	Size L x W x H	Gross Weight	Qty	Size L x W x H	Gross Weight		
				(cm)	(Kg)		(cm)	(Kg)		
DO-201AD	T&A	1,200	1.2K	29 x 8 x 15	1.68	10.8K	46 x 36 x 25	15.3		

T & A: Tape and Ammo Pack

DO-201AD

AXIAL TAPE FOR DO-201AD



DO-201AD 52 mm Tape							
DIM	Min	Max					
Α	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.
- 4. Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

DO-201AD

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Customer Notes

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 Discrete 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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