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.

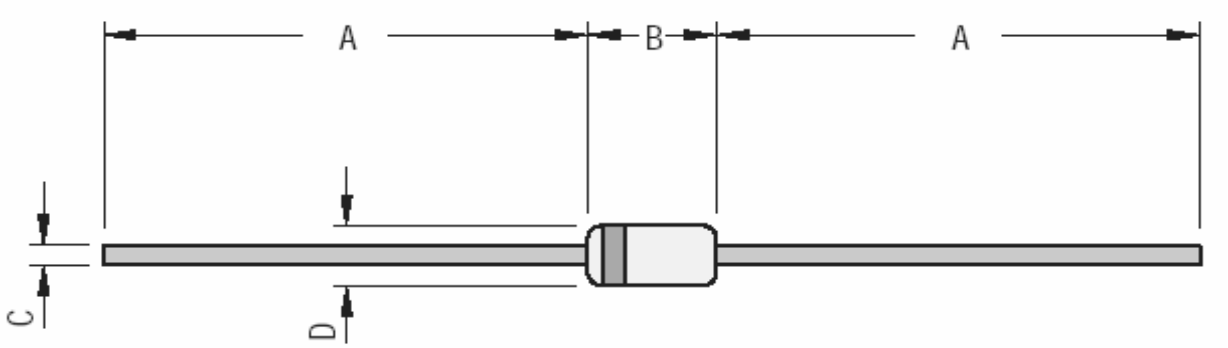
Absolute Maximum Ratings (Ratings at T_A = 25°C Unless Specified Otherwise, Single Phase, Half Wave Resistive or Inductive Load. For Capacitive Load, derate current by 20%.)

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 0.375" (9.5mm) Lead Length at T_A=55°C	$I_{F\ (AV)}$	3.0									A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150.0									A
Maximum Forward Voltage @ 3.0A DC and T_a=25°C	V_F	1.0					1.7				V
Maximum Reverse Current @ T_a=25°C at Rated DC Blocking Voltage @ T_a=100°C	I_R	10 1000									µA
Typical Junction Capacitance (Note 1)	C_J	45					36				pF
Typical Thermal Resistance (Note 2)	$R_{th\ (j-a)}$	20									°C/W
Maximum Reverse Recovery Time (Note 3)	t_{rr}	50					75				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.**

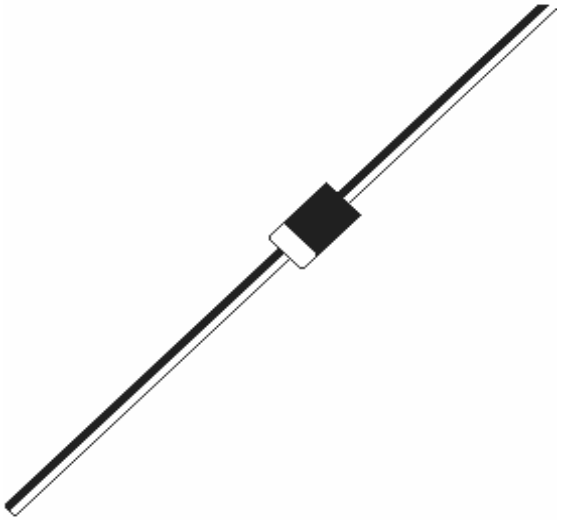
DO-201AD Axial Plastic Package



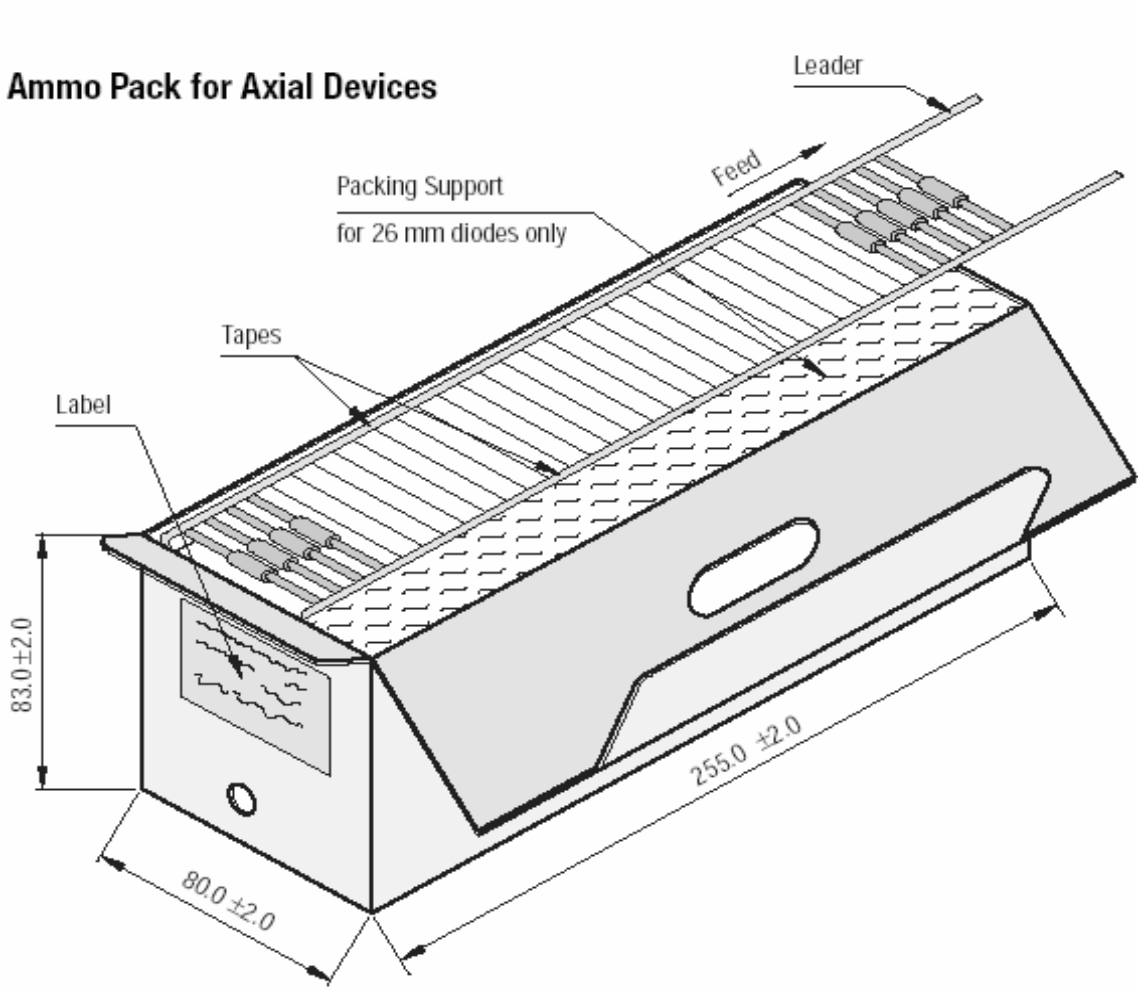
Cathode is marked by a Band

DIM	Min	Max
A	25.40	
B	8.50	9.50
C	1.20	1.30
D	5.00	5.60

All Dimensions are in mm



AMMO PACKING FOR DO-201AD



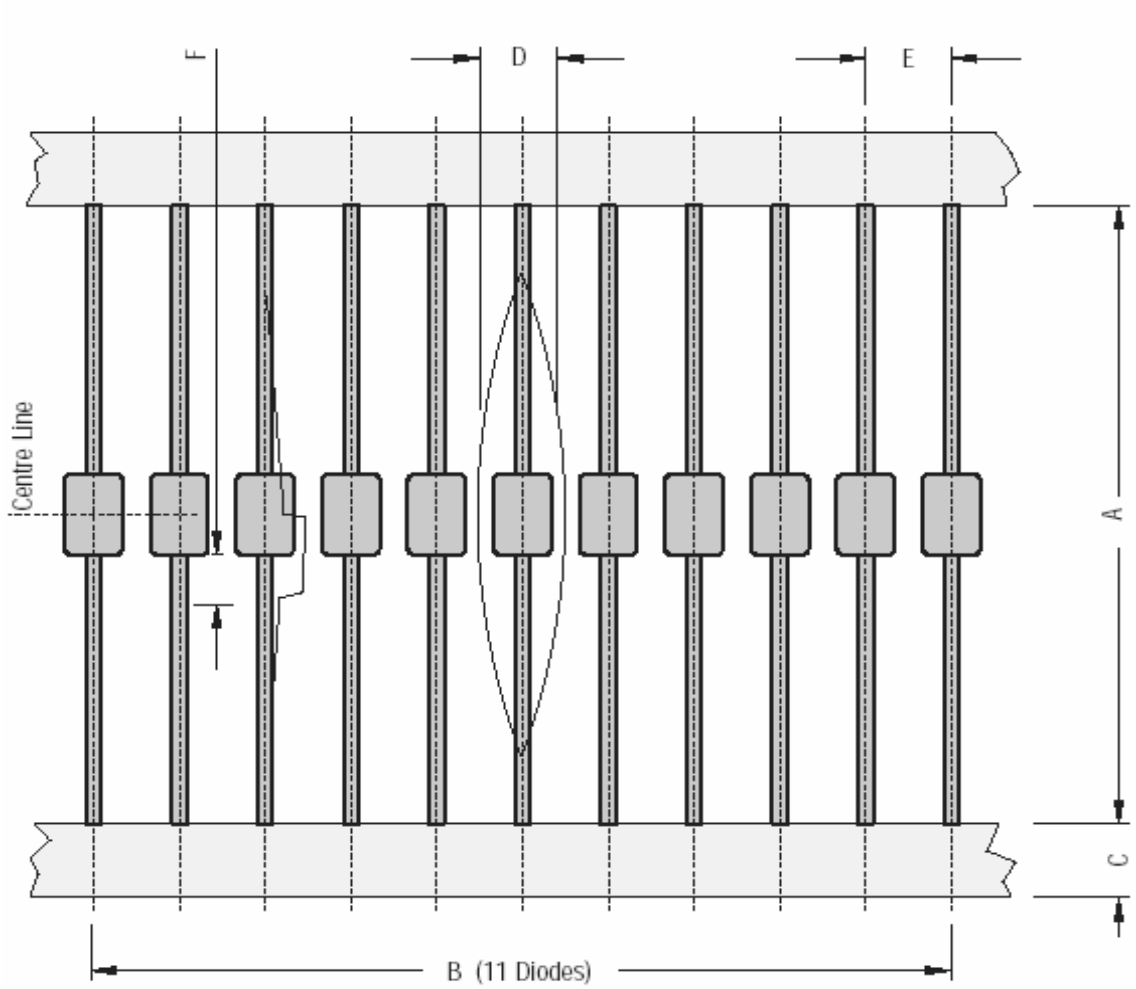
All Dimensions are in mm

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

AXIAL TAPE FOR DO-201AD



DO-201AD 52 mm Tape		
DIM	**Min**	**Max**
A	50.0	54.0
B	95.0	105.0
C	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.

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

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