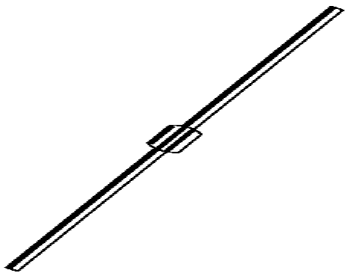
SOFT RECOVERY, FAST SWITCHING PLASTIC RECTIFIERS

MR850 - MR856



DO-201AD
Axial Lead Plastic Package

Maximum Ratings (Ratings at T_a = 25°C ambient temperature unless specified oterwise. Resistive or inductive load, 60Hz)

DESCRIPTION	SYMBOL	MR850	MR851	MR852	MR854	MR856	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
RMS Voltage	V_{RMS}	35	70	140	280	420	V
DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Average Forward Current 0.375" (9.5mm) Lead Length @ T_a=50ºC	$I_{(AV)}$	3.0					A
Peak Forward Surge Current 10ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	100					A
Repetitive Peak Forward surge (Note 1)	I_{FRM}	1.0					A
Forward Voltage @ 3.0A	V_F	1.25					V
Dc Reverse Current @ T_a=25ºC	I_R	10					µA
Rated DC Blocking Voltage @ T_a=100ºC		500					µA
Reverse Recovery Time (Note 2)	T_{RR}	150					ns
Typical Junction Capacitance (Note 3)	C_j	60					pF
Typical Thermal Resistance Junction to Ambient (Note 4)	$R_{th\ (j-a)}$	15					ºC/W
Operating Junction Temperature	T_j	- 55 to +125					ºC
Storage Temperature Range	T_{stg}	- 55 to +150					ºC

Notes 1. Repetitive Peak Forward Surge Current @ f <15KHz

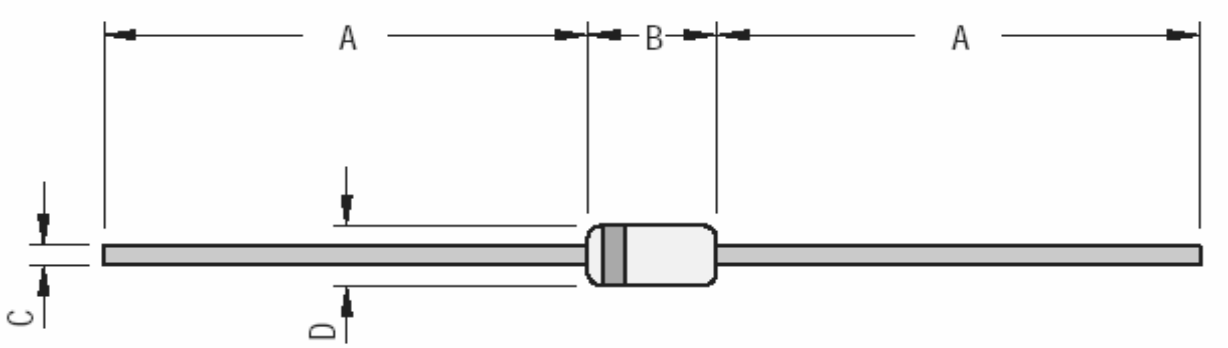
2. Reverse Recovery Test Conditions : I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A

3. Measured @ 1MHz and Applied Reverse Voltage 0f 4.0 V

4. Thermal Resistance from Junction to ambient and from junction to Lead Length "0.375" (9.5mm) P.C.B. mounted

MR850_856Rev110105E

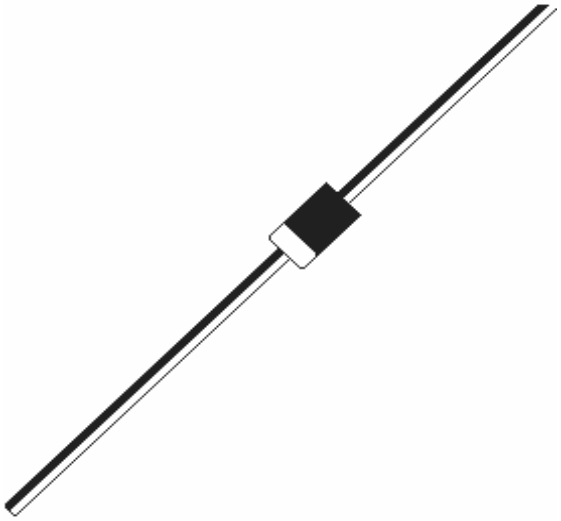
DO-201AD Axial Plastic Package



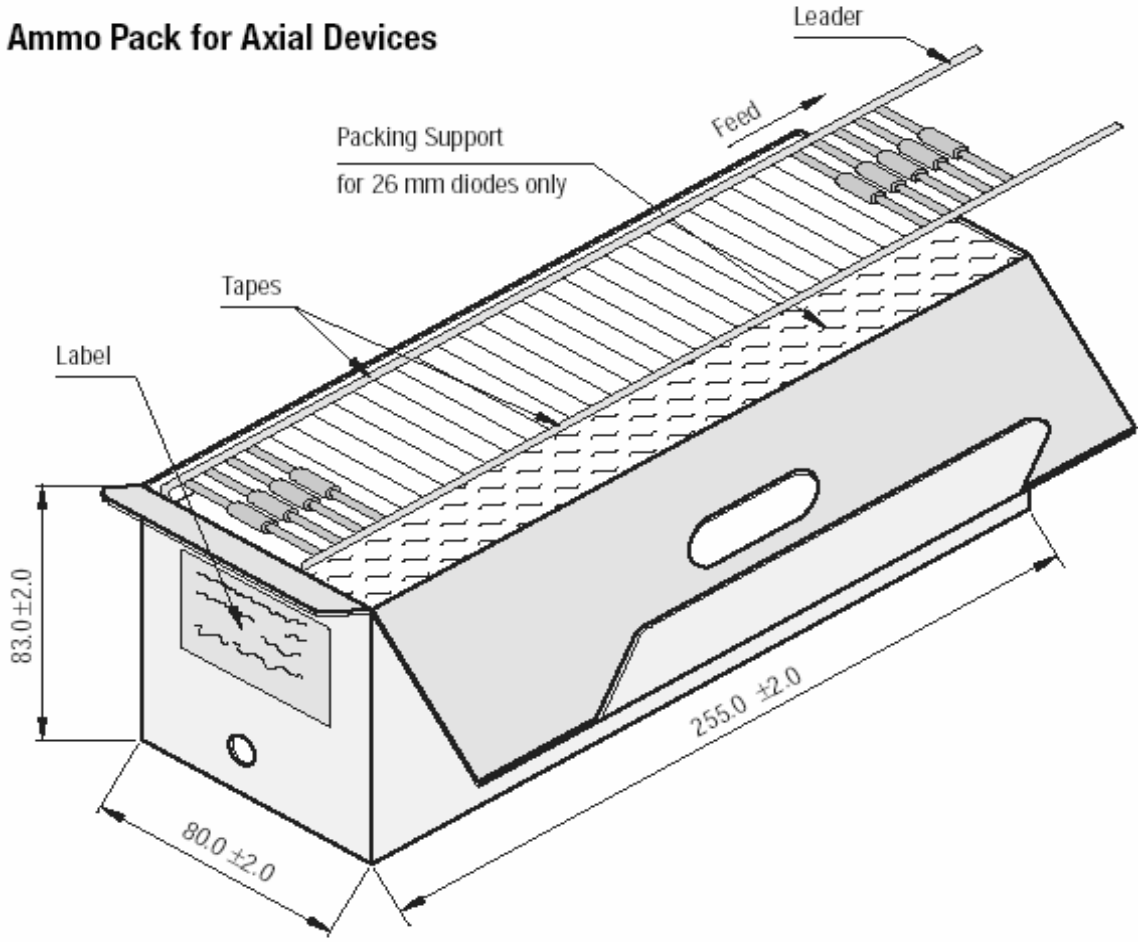
Cathode is marked by a Band

DIM	Min	Max
A	25.40	
B	8.50	9.50
C	1.20	1.30
D	2.00	2.70

All Dimensions are in mm



AMMO PACKING FOR DO-201AD



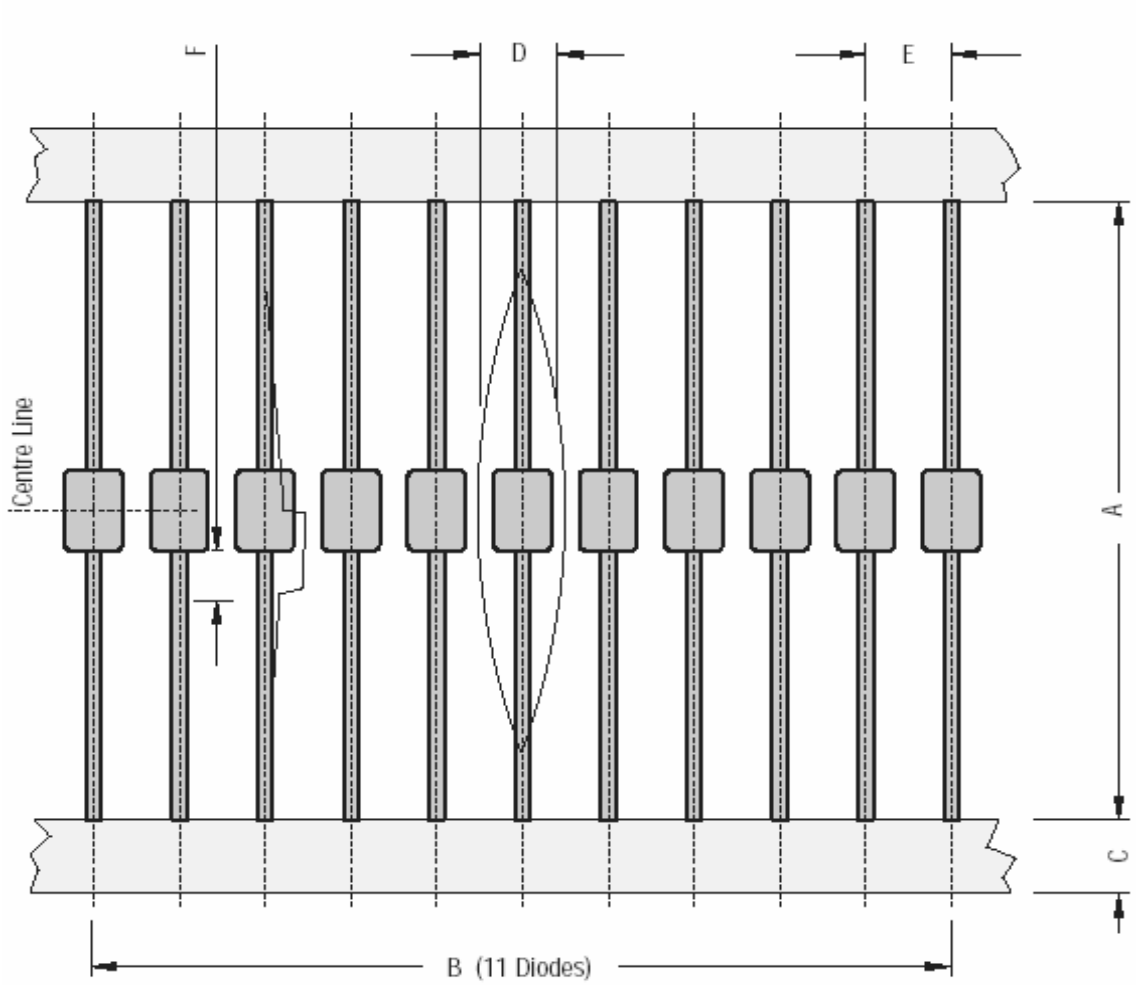
All Dimensions are in mm

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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