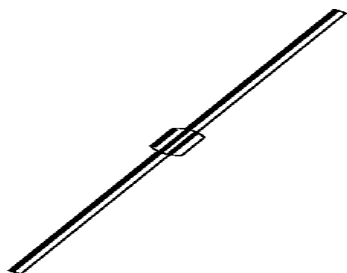


SOFT RECOVERY, FAST SWITCHING PLASTIC RECTIFIERS

MR850 - MR856

DO-201AD
Axial Lead Plastic
Package



Maximum Ratings (Ratings at $T_a = 25^\circ\text{C}$ ambient temperature unless specified otherwise.
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 @ $T_a=50^\circ\text{C}$	$I_{(AV)}$	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 @ $T_a=25^\circ\text{C}$	I_R	10					μA
Rated DC Blocking Voltage @ $T_a=100^\circ\text{C}$		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					$^\circ\text{C/W}$
Operating Junction Temperature	T_j	- 55 to +125					$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to +150					$^\circ\text{C}$

Notes 1. Repetitive Peak Forward Surge Current @ $f < 15\text{KHz}$

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

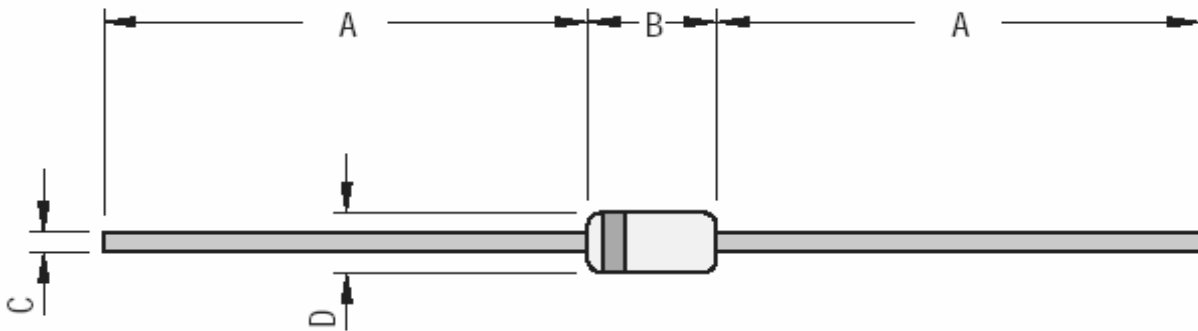
3. Measured @ 1MHz and Applied Reverse Voltage Of 4.0 V

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 Leaded Plastic
Package

DO-201AD Axial Plastic Package



Cathode is marked by a Band

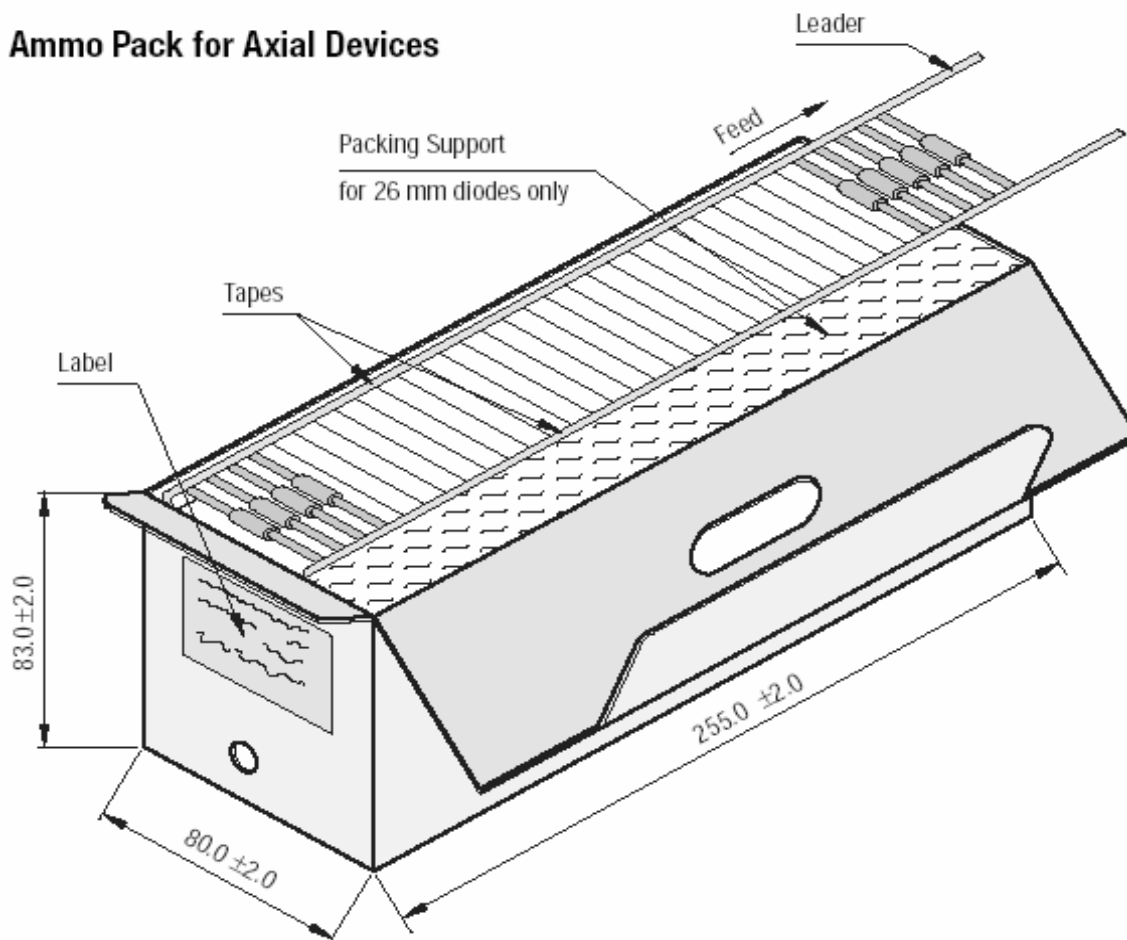
DIM	Min	Max
A	25.40	
B	8.50	9.50
C	1.20	1.30
D	2.00	2.70

All Dimensions are in mm



AMMO PACKING FOR DO-201AD

Ammo Pack for Axial Devices



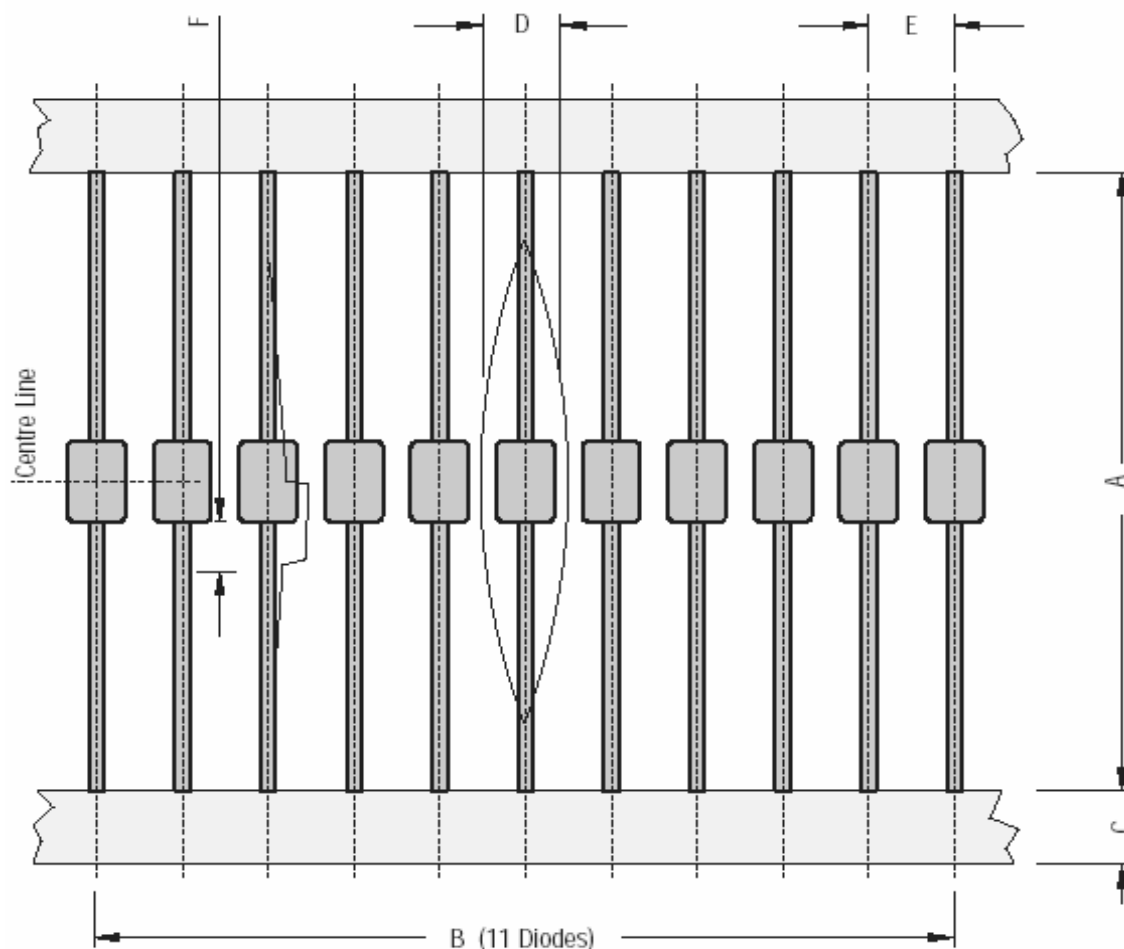
All Dimensions are in mm

Packaging Information

Package/ Case Type	Packaging Type	Std. Packing Qty	Inner Carton			Outer Carton		
			Qty	Size L x W x H (cm)	Gross Weight (Kg)	Qty	Size L x W x H (cm)	Gross Weight (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**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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



CDIL is a registered Trademark of
Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.

Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119

email@cdil.com

www.cdilsemi.com