

SCHOTTKY BARRIER PLASTIC RECTIFIERS

1N5820 ~ 1N5822



**DO-201AD (Plastic)
Axial Lead Plastic
Package**

Absolute Maximum Ratings (Ratings at $T_A = 25^\circ\text{C}$ unless specified otherwise, single phase, half wave, resistive or inductive load. For capacitive load, derate by 20%.)

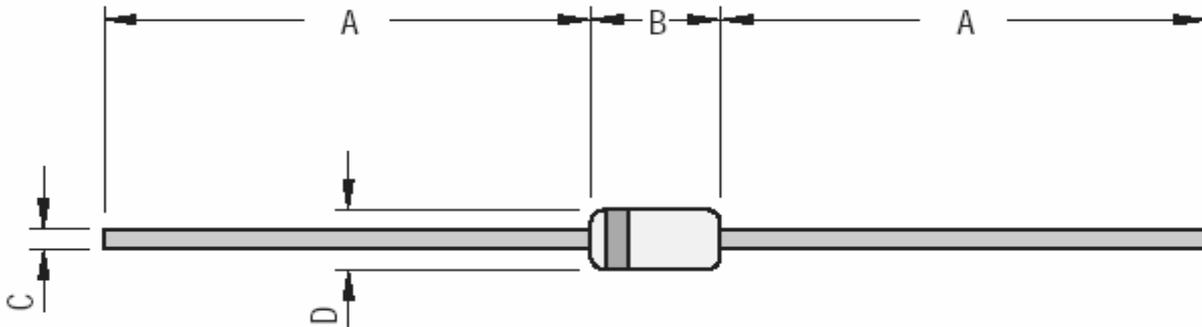
DESCRIPTION	SYMBOL	1N5820	1N5821	1N5822	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
RMS Voltage	V_{RMS}	14	21	28	V
DC Blocking Voltage	V_{DC}	20	30	40	V
Non Repetitive Peak Reverse Voltage	V_{RSM}	24	36	48	V
Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_L=95^\circ\text{C}$	$I_{F(AV)}$	3.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load, at $T_L=75^\circ\text{C}$	I_{FSM}	80			A
Instantaneous Forward Voltage at 3A (Note)	V_F	0.475	0.5	0.525	V
Instantaneous Forward Voltage at 9.4A (Note 1)	V_F	0.850	0.9	0.950	V
Reverse Current at Rated DC Blocking Voltage (Note 1)	I_R	1.5			mA
		20			mA
Typical Thermal Resistance (Note 2)	$R_{th(j-a)}$	40			$^\circ\text{C/W}$
	$R_{th(j-L)}$	10			$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 65 to +125			$^\circ\text{C}$

Note: 1. Pulse test: 300ms pulse width, duty cycle 1%

2. Thermal resistance (from junction to ambient) vertical PCB mounted, 0.5" (12.7mm) lead length with 2.5" x 2.5" (63.5 x 63.5mm) copper pads

1N5820_5822Rev070704E

DO-201AD Axial Plastic Package

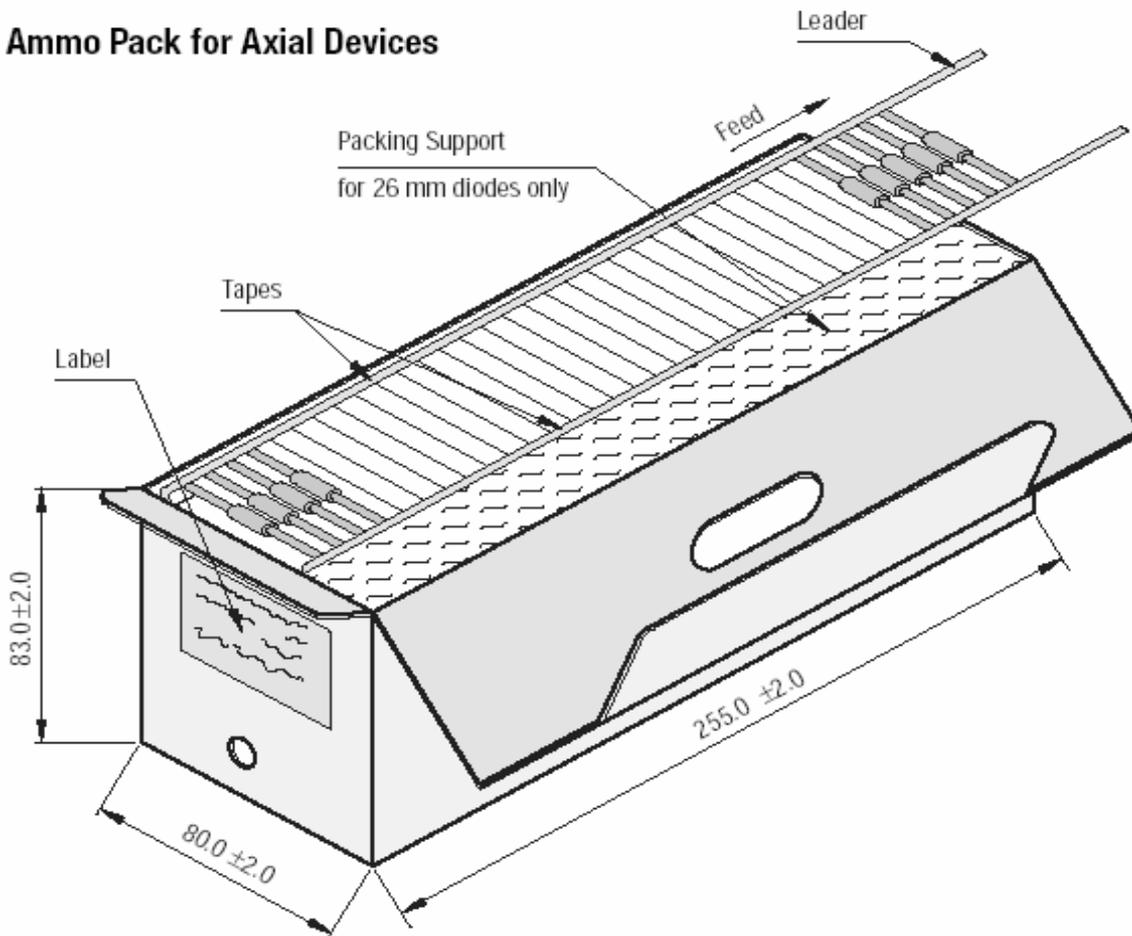


Cathode is marked by a Band

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**

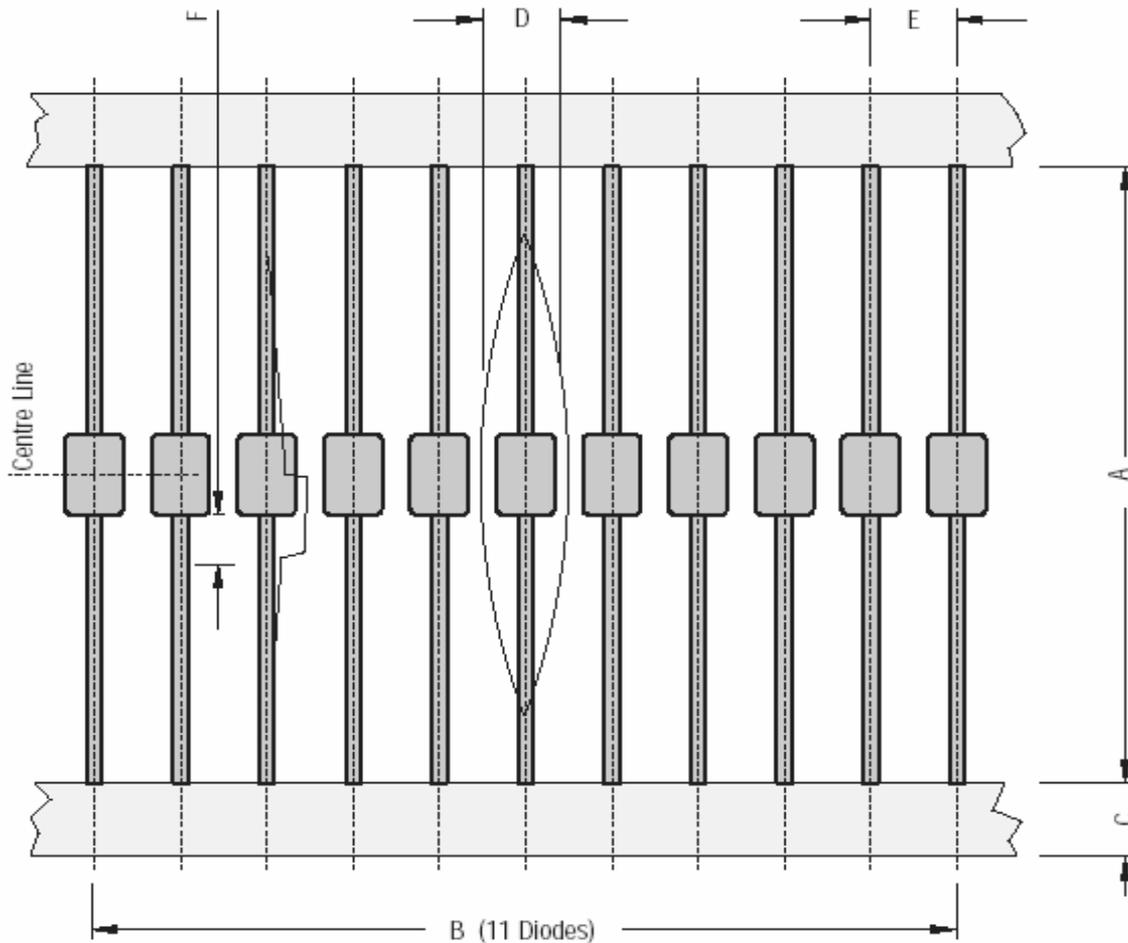
All Dimensions are in mm

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

- 300 mm (Min) leader tape on every roll.
- No. of empty places allowed 0.25% without consecutive empty places.
- 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.

**DO-201AD (Plastic)
Axial Lead Plastic
Package****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).

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