

SCHOTTKY BARRIER RECTIFIER

SR320 - SR3100



DO-201AD

Axial Lead Plastic Package

Polarity: Colour band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

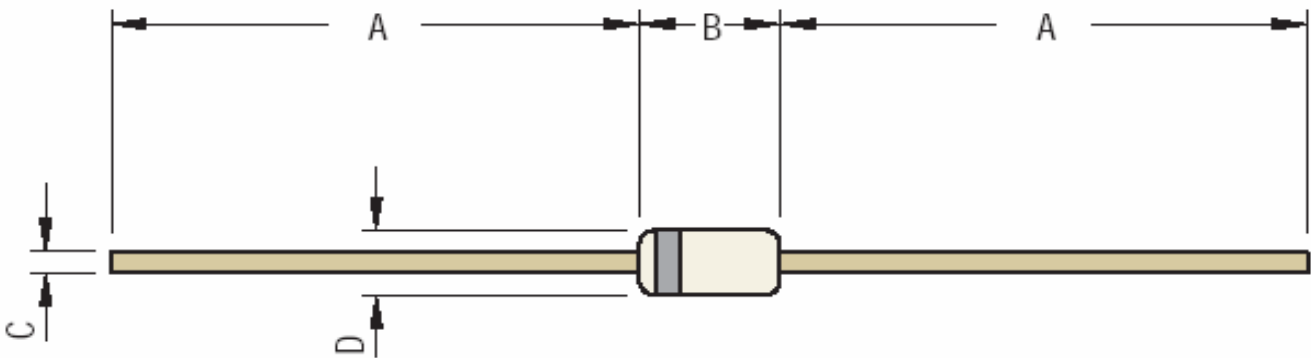
Ratings at $T_a=25^\circ\text{C}$ Ambient Temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load. For capacitive load, derate current by 20%

DESCRIPTION	SYMBOL	SR	SR	SR	SR	SR	SR	SR	UNIT
		320	330	340	350	360	380	3100	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length	$I_{(AV)}$	3.0							A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	80							A
Maximum Forward Voltage at 3.0A at 25°C	V_F	0.55		0.70		0.85		V	
Maximum Reverse Current at $T_a=25^\circ\text{C}$	I_R	0.5							mA
at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$		30							mA
Typical Junction Capacitance	$*C_J$	300			250				pF
Typical Thermal Resistance	$**R_{th(j-a)}$	40							$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 55 to +125			- 55 to +150				$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to +150							$^\circ\text{C}$

*Measured at 1MHz and applied reverse voltage of 4.0 V

**Thermal Resistance Junction to Ambient 0.375" (9.5mm) Lead Length PCB Mounted

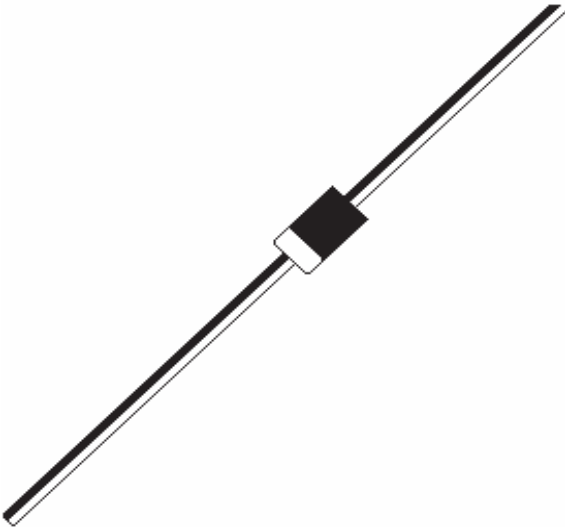
DO-201AD Axial Lead Plastic Package



Cathode is marked by a Band

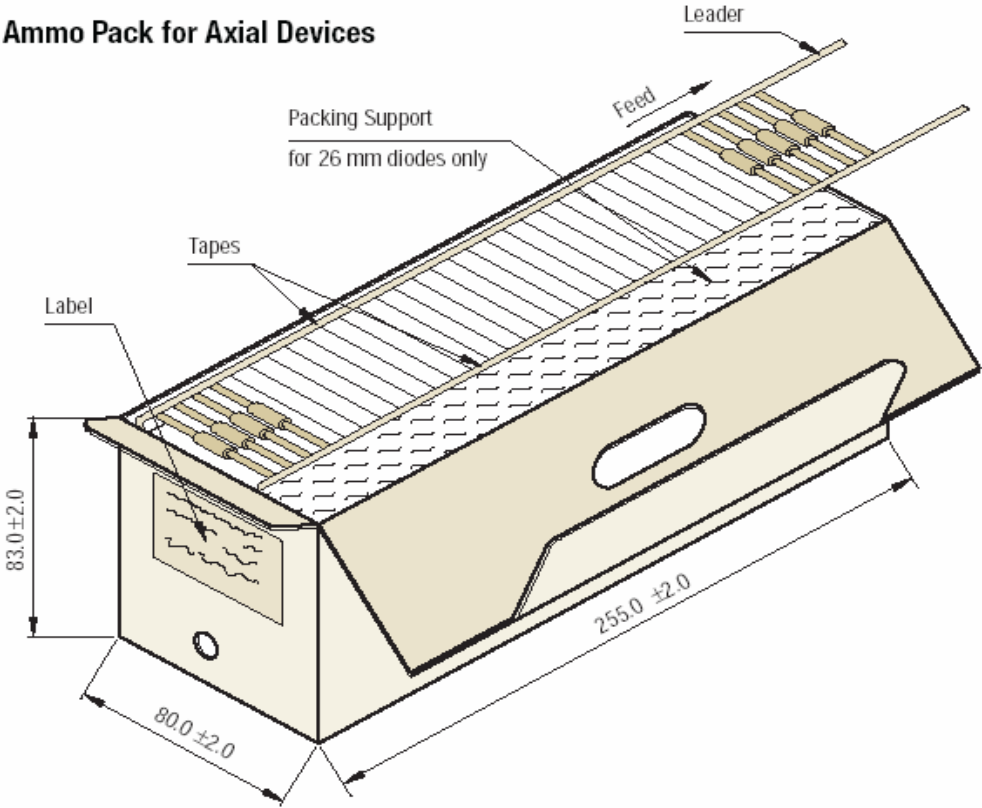
DIM	Min	Max
A	25.40	
B	8.50	9.50
C	1.20	1.30
D	5.00	5.60

All Dimensions are in mm



AMMO PACKING FOR DO-201AD

Ammo Pack for Axial Devices



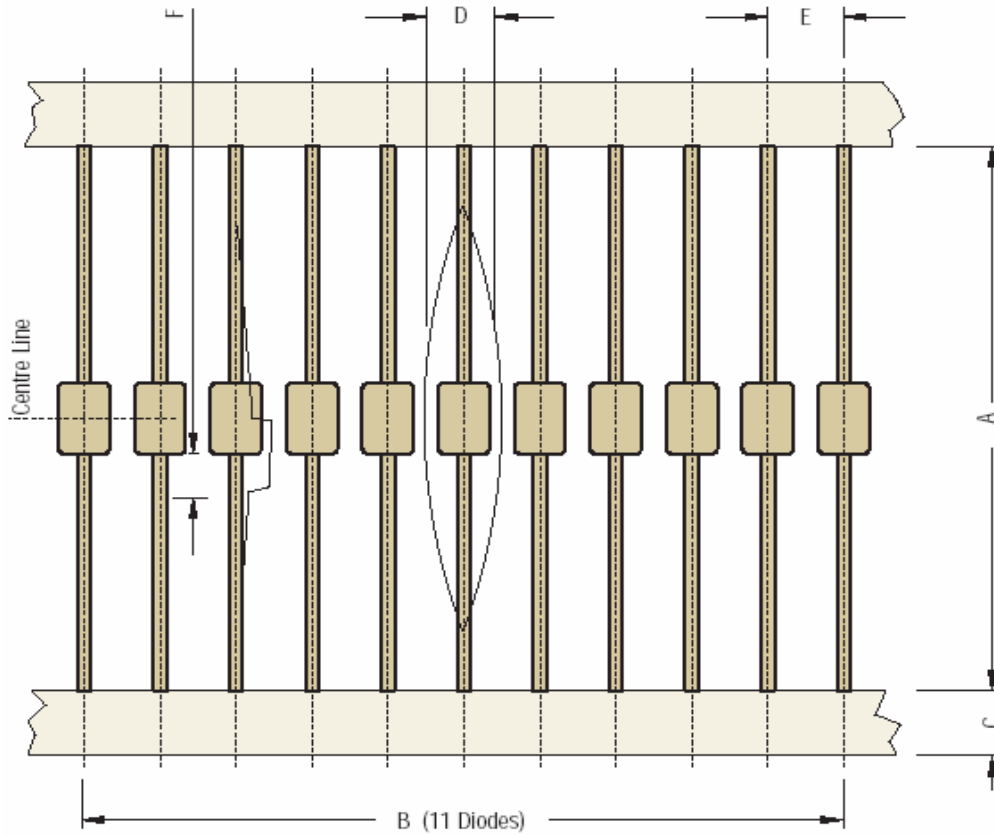
All Dimensions are in mm

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 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