SCHOTTKY BARRIER RECTIFIERS

SR120 to SR1100

DO-41P
Axial Lead Plastic Package

For use in Low Voltage, High Frequency Inverters, Free Wheeling and Polarity Protection Applications

Polarity: Colour band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at T_a=25°C Ambient Temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

ELECTRICAL CHARACTERISTICS

DESCRIPTION	SYMBOL	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	UNIT
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 at T_L=100ºC	$I_{(AV)}$	1.0							A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	40							A
Maximum Forward Voltage at 1.0 A	V_F	0.45	0.55	0.6	0.7		0.85		V
Maximum DC Reverse Current at T_j=25°C	I_R	1.0							mA
at Rated DC Blocking Voltage at T_j=100°C		10							mA
Typical Junction Capacitance	*C_J	110			80				pF
Typical Thermal Resistance	**$R_{th\ (J-L)}$	15							°C/W
Operating Junction Temperature Range	T_J	- 55 to +150							°C
Storage Temperature Range	T_{stg}	- 55 to +150							°C

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

****Thermal Resistance Junction to Lead**

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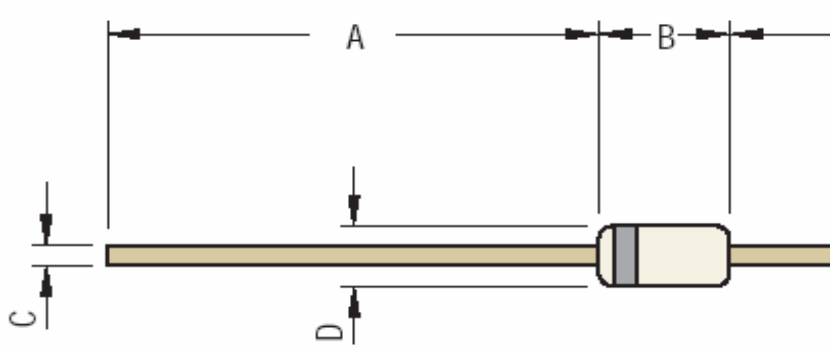

52mm - DO-41P Package

DIM	Min	Max
A	25.40	
B	4.20	5.20
C	0.70	0.90
D	2.00	2.70

All Dimensions are in mm

26mm - DO-41P Package

DIM	Min	Max
A	14.60	
B	4.10	5.20
C	0.71	0.86
D	2.00	2.70

All Dimensions are in mm

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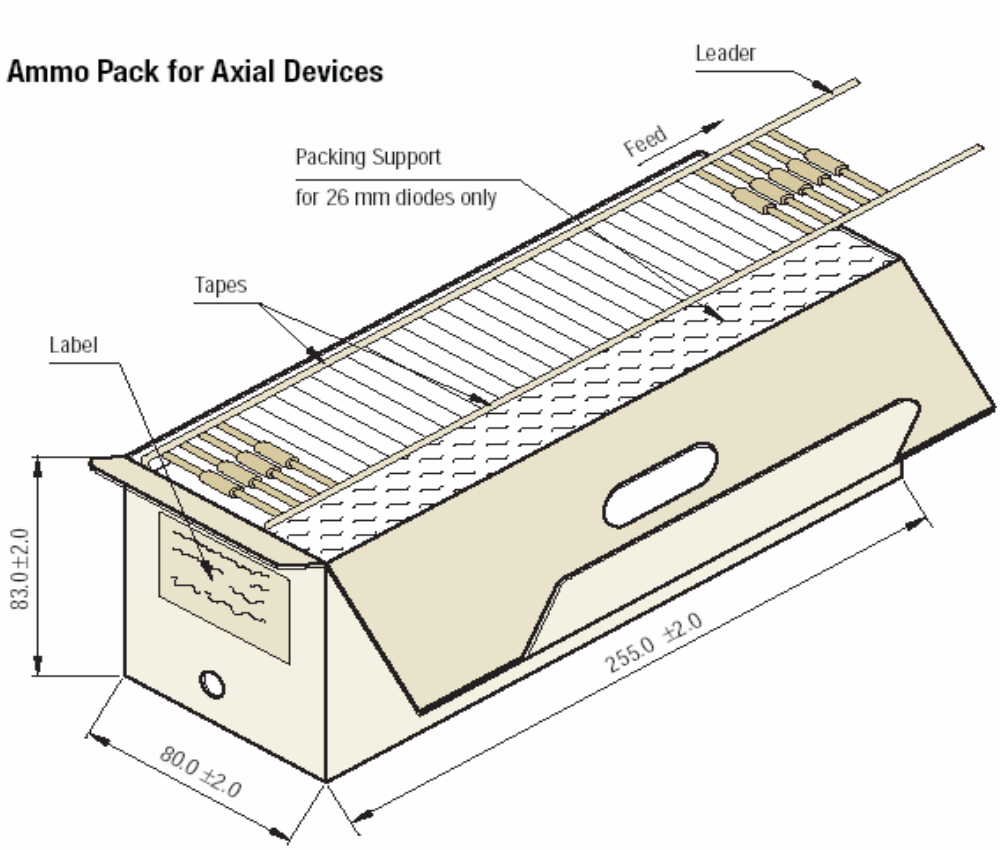
AMMO PACKING FOR DO-41P



All Dimensions are in mm

Packaging Information

Package/ Case Type	Packaging Type	Std. Packing	Inner Carton			Outer Carton		
		Qty	Qty	Size L x W x H	Gross Weight	Qty	Size L x W x H	Gross Weight
				(cm)	(Kg)		(cm)	(Kg)
DO-41P (52mm)	T&A	5,000	5K	27 x 8 x 14	1.96	45K	46 x 35 x 25	17.5
DO-41P (26mm)	T&A	3,000					50 x 6.5 x 31	

T & A: Tape and Ammo Pack

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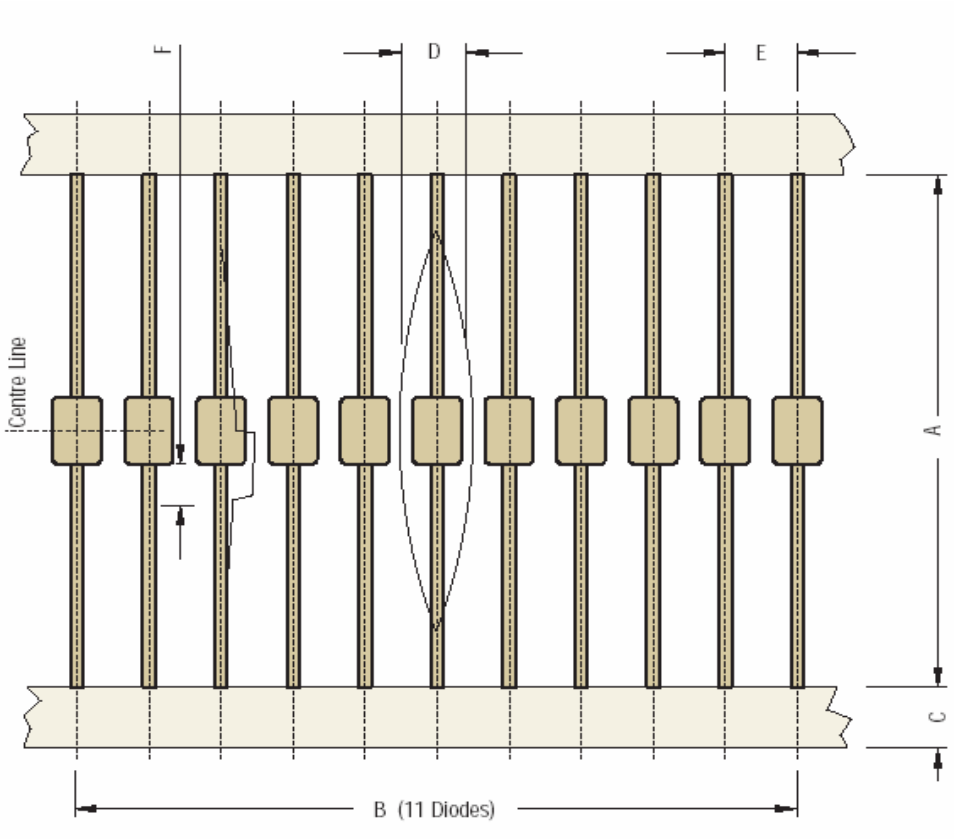
AXIAL TAPE FOR DO-41P



DO-41P 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

DO-41P 26 mm Tape		
DIM	**Min**	**Max**
A	26.0	26.4
B	50.0	60.0
C	5.00	6.00
D		1.5R
E	4.50	5.50
F		0.8

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.

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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 Note

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).

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