

FAST SWITCHING PLASTIC RECTIFIERS

BA157, BA158, BA159

DO-41 (Plastic)
Fast Switching Plastic
Rectifiers



Fast switching for higher efficiency

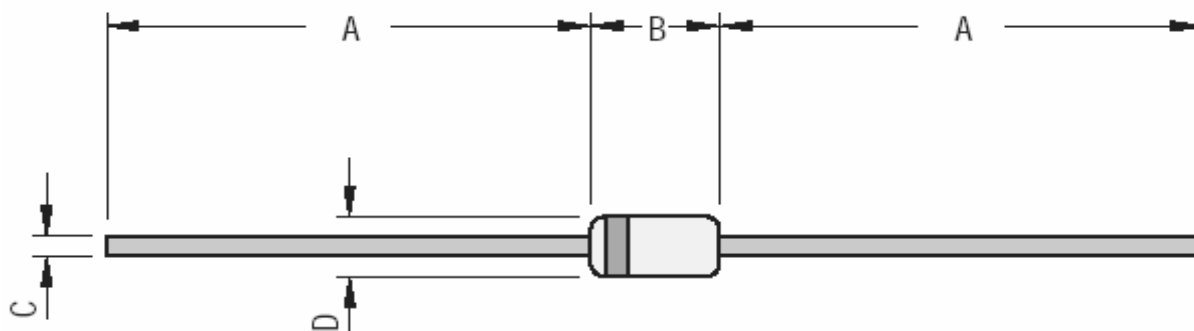
Absolute Maximum Ratings (Ratings at $T_A = 25^\circ\text{C}$ unless specified otherwise, Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

DESCRIPTION	SYMBOL	BA157	BA158	BA159	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	1000	V
Maximum RMS Voltage	V_{RMS}	280	420	700	V
Maximum DC Blocking Voltage	V_{DC}	400	600	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	1.0			A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	30			A
Maximum Forward Voltage at 1A	V_F	1.3			V
Maximum Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	I_R	5.0			μA
		500			μA
Typical Junction Capacitance (Note 1)	C_J	12			pF
Maximum Reverse Recovery Time (Note 2)	t_{rr}	150		250	ns
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150			$^\circ\text{C}$

NOTES:

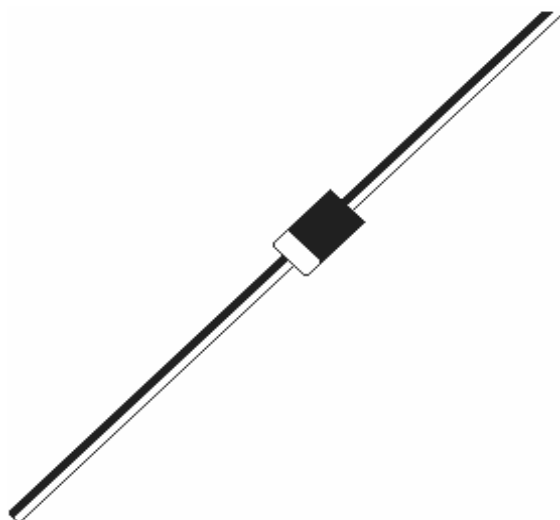
1. Measured at 1MHz and applied reverse voltage of 4.0 VDC
2. Reverse Recovery Test Conditions : $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = 0.25\text{A}$

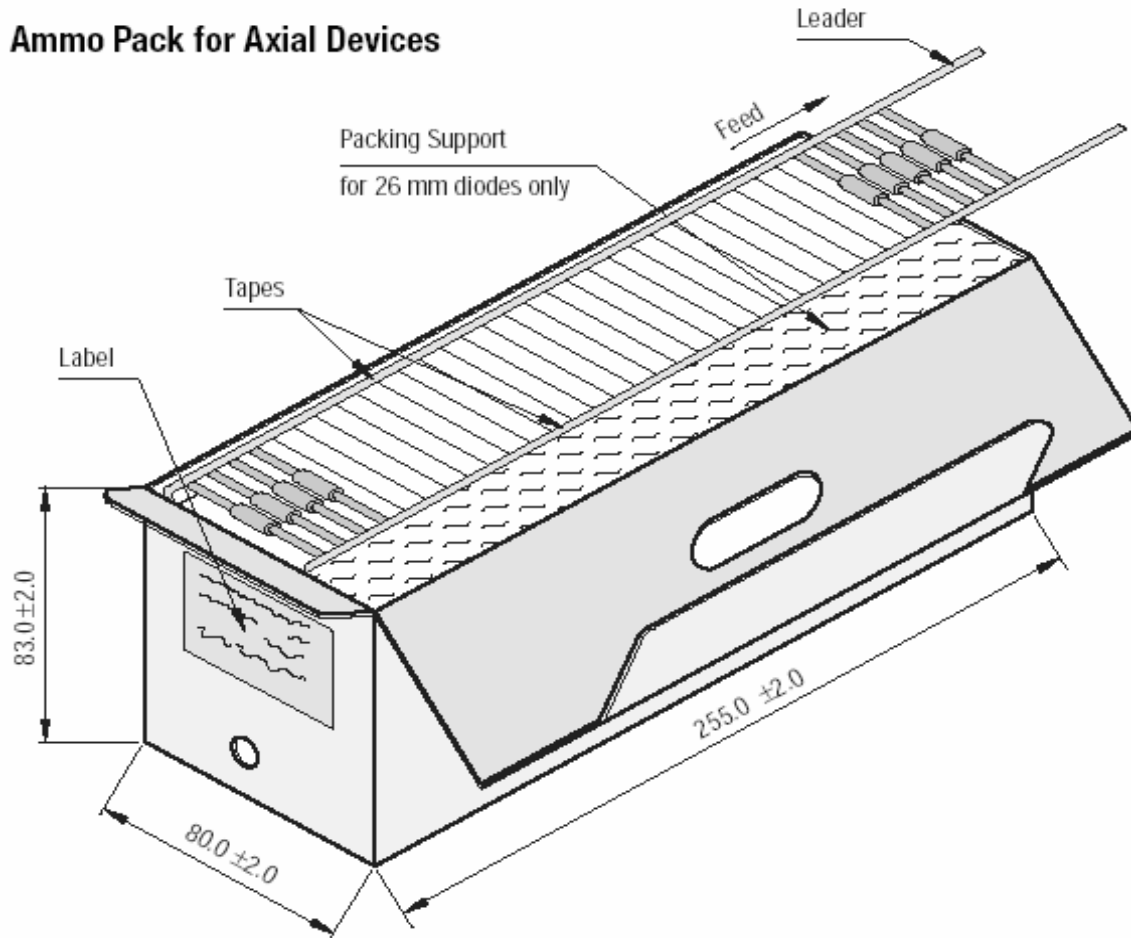
DO-41P Axial Plastic Package



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



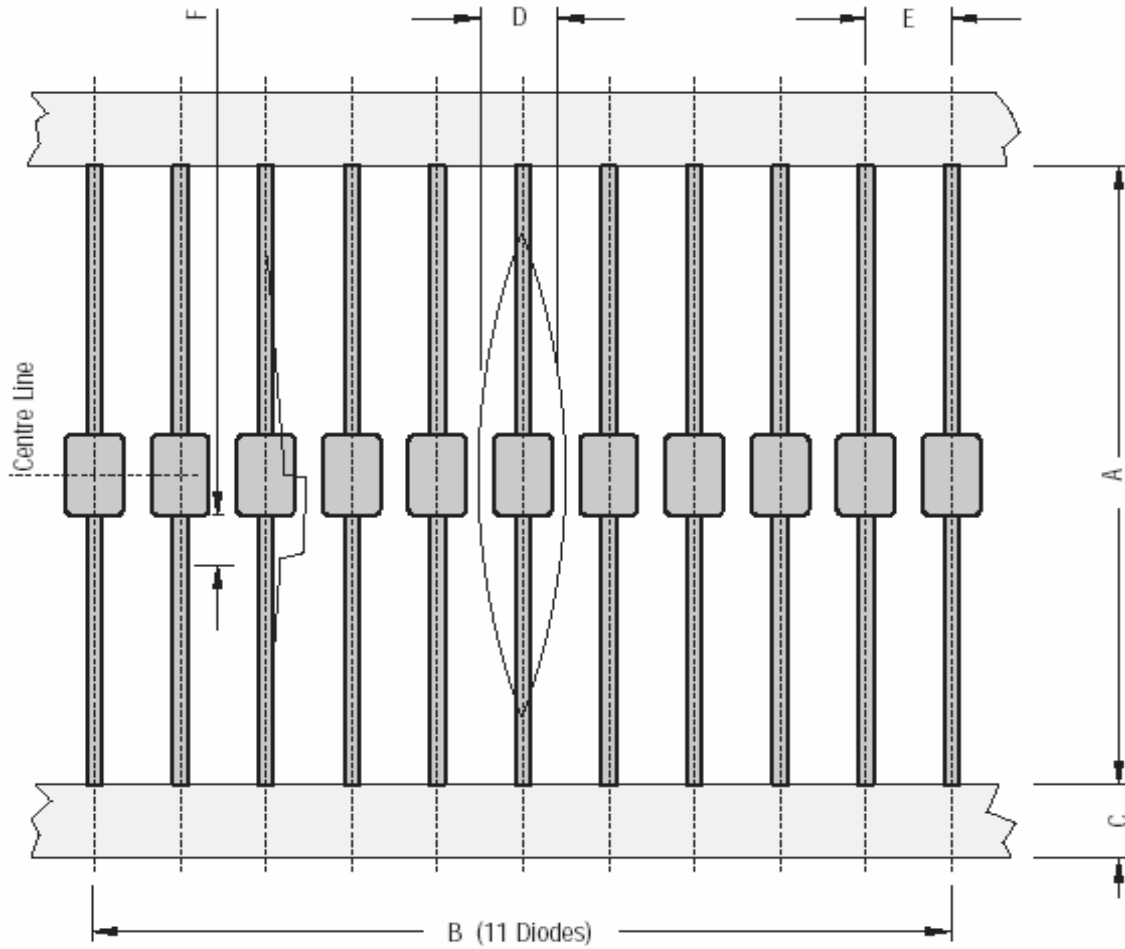
AMMO PACKING FOR DO-41P**Ammo Pack for Axial Devices**

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-41P	T&A	5,000	5K	27 x 8 x 14	1.96	45K	46 x 35 x 25	17.5

T & A: Tape and Ammo Pack



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

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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