

#### Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company





1N4933 - 1N4937

DO-41 (Plastic) Axial Lead Plastic Package

Axial-lead, fast-recovery rectifiers are designed for special applications such as DC power supplies, inverters, converters, ultrasonic systems, choppers, low RF interference and free wheeling diodes.

# ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

DESCRIPTION	SYMBOL	1N4933	1N4934	1N4935	1N4936	1N4937	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length @ T <sub>a</sub> =75°C	I <sub>F (AV)</sub>	1.0			Α		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method) @ T <sub>a</sub> =75°C	I <sub>FSM</sub>	30.0			А		
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>	1.3			V		
Maximum DC Reverse Current @ rated DC Blocking Voltage		5.0					μΑ
Maximum Full Load Reverse Current Full Cycle Average 0.375" (9.5mm) lead length @ T <sub>L</sub> =55°C	l <sub>R</sub>	100					
Maximum Reverse Recovery Time	*t <sub>rr</sub>	200			ns		
Typical Junction Capacitance	**C <sub>j</sub>	15.0			pF		
Operating Junction and Storage Temperature Range	$T_j$ , $T_{stg}$	- 65 to +150			°C		

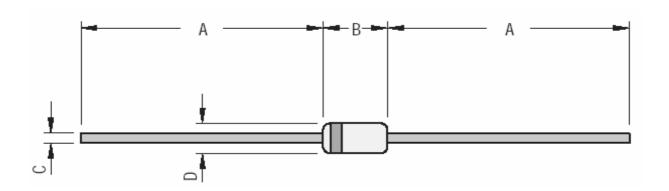
<sup>\*</sup> Test Conditions :  $I_F=1.0A$ ,  $V_R=30V$ , di/dt=50A/ms and  $I_{rr}=10\%I_{RM}$ 

1N4933\_37 Rev 081204D

<sup>\*\*</sup> Measured at 1MHz and applied reverse voltage of 4.0V



## **DO-41P Axial Plastic Package**

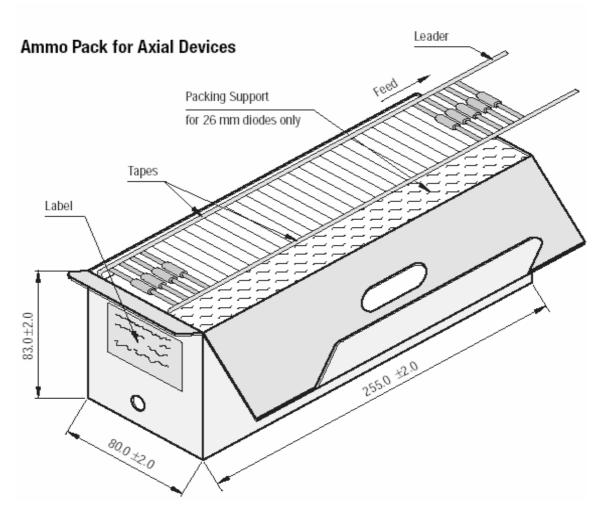


DIM	Min	Max
A	25.40	
В	4.20	5.20
С	0.70	0.90
D	2.00	2.70

All Dimensions are in mm



### **AMMO PACKING FOR DO-41P**

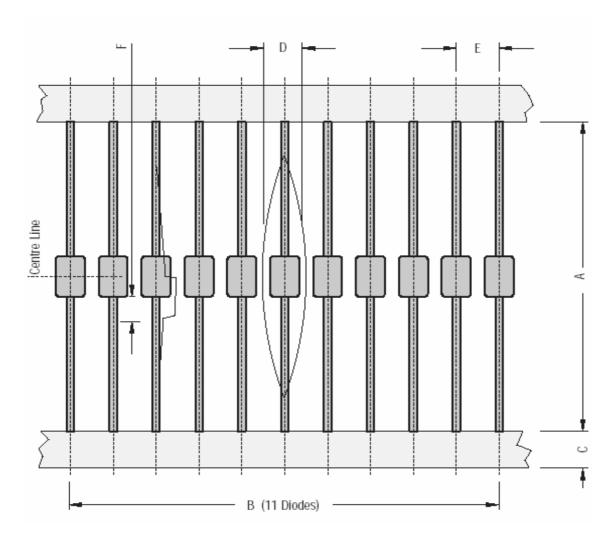


All Dimensions are in mm

### **Packaging Information**

Package/	Packaging Type	Std. Packing	Inner Carton			Outer Carton		
Case Type		Qty	Qty	Size L x W x H	<b>Gross Weight</b>	Qty	Size L x W x H	<b>Gross Weight</b>
				(cm)	(Kg)		(cm)	(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				
Α	50.0	54.0				
В	95.0	105.0				
С	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.

Customer Notes 1N4933 - 1N4937

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#### **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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