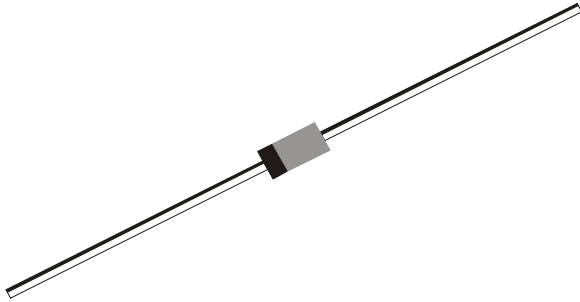


SILICON GLASS PASSIVATED 2.0 WATT ZENER DIODES

ZY7.5V to ZY47V

**DO- 41
 Glass Axial Package**



For use in Stabilizing and Clipping Circuits with High Power Rating

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Power Dissipation @ T _a =25°C	*P _D	2	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to+150	°C

THERMAL RESISTANCE

Junction to ambient in free air	*R _{th(j-a)}	60	K/W
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*Valid provided that leads are kept at ambient temperature at a distance of 10mm from case

ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise) V_F <1.1V @ 1A

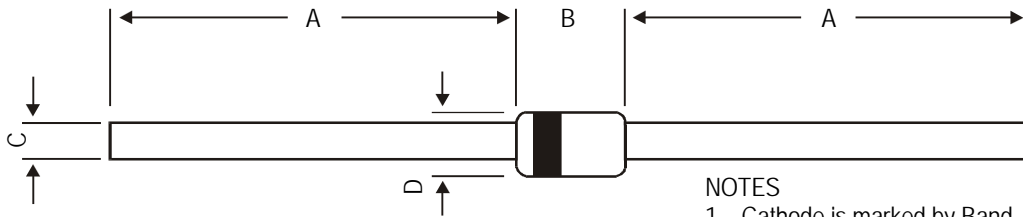
Device #	**Zener Voltage @ I _{ZT}		Dynamic Resistance @ I _{ZT} f=1KHz (max) r _{zj} (W)	Temp . Coeff of Zener Voltage @ I _Z test a V _Z 10 ^{-4/K}	Test Current @ I _Z test I _{ZT} (mA)	Reverse Voltage @ I _R = 1 mA V _R (V)	***Admissible Zener Current @ T _a =45°C I _Z (mA)
	min V _Z (V)	max					
ZY7.5	7.0	7.9	2	-0.....+7	100	>2.0	200
ZY8.2	7.7	8.7	2	+3.....+8	100	>3.5	180
ZY9.1	8.5	9.6	4	+3.....+8	50	>7.4	165
ZY10	9.4	10.6	4	+5.....+9	50	>8.2	145
ZY11	10.4	11.6	7	+5.....+10	50	>9.2	135
ZY12	11.4	12.7	7	+5.....+10	50	>10	120
ZY13	12.4	14.1	10	+5.....+10	50	>10.7	110
ZY15	13.8	15.8	10	+5.....+10	50	>12	98
ZY16	15.3	17.1	15	+6.....+11	25	>13.3	90
ZY18	16.8	19.1	15	+6.....+11	25	>14.7	80
ZY20	18.8	21.2	15	+6.....+11	25	>16.5	72
ZY22	20.8	23.3	15	+6.....+11	25	>18.3	66
ZY24	22.8	25.6	15	+6.....+11	25	>20.1	60
ZY27	25.1	28.9	15	+6.....+11	25	>22.5	53
ZY30	28	32	15	+6.....+11	25	>25.1	48
ZY33	31	35	15	+6.....+11	25	>27.8	4
ZY36	34	38	40	+6.....+11	10	>30.2	40
ZY39	37	41	40	+6.....+11	10	>32.9	37
ZY43	40	46	45	+7.....+12	10	>35.6	33
ZY47	44	50	45	+7.....+12	10	>39.2	30

**Tested with Pulse t_p=5ms

*** Valid provided that leads are kept at ambient temperature at a distance of 10mm from case

ZY7.5_47V Rev _2 050604E

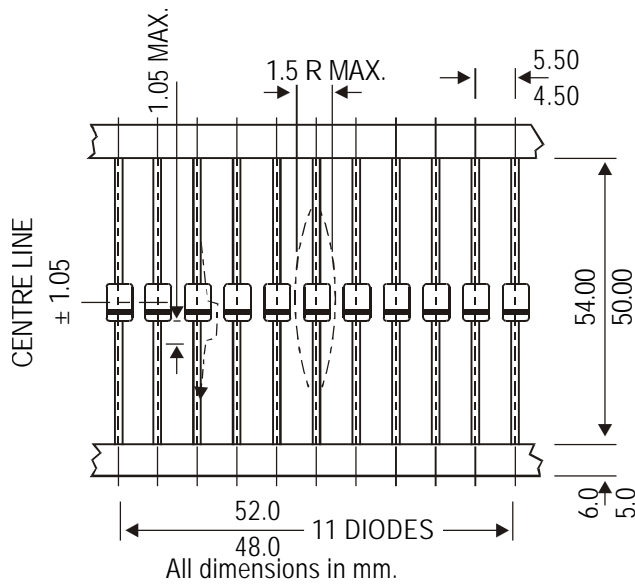
DO- 41 Glass Axial Package



DIM	MIN	MAX
A	27.90	—
B	4.06	5.51
C	0.71	0.87
D	2.03	2.72

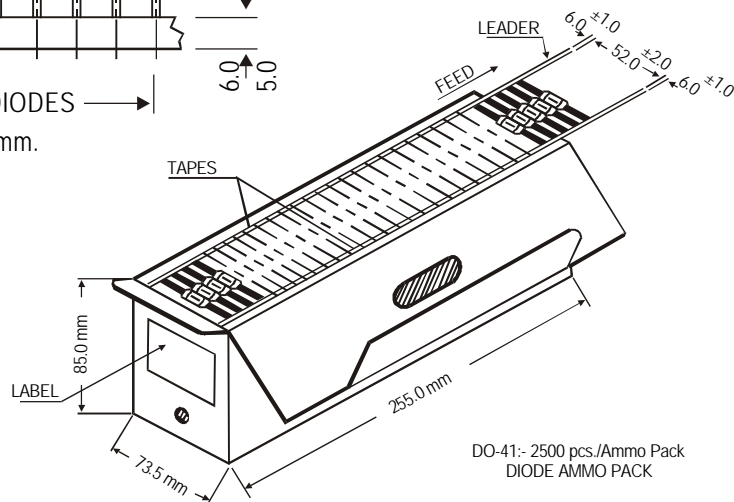
- NOTES
1. Cathode is marked by Band.
 2. All dimensions are in mm.

DO-41, 52mm Taping Specification



52 mm Taping Specification

1. T & A indicates Axil Tape & Ammo packing (52 mm Tape Spacing).
2. 300 mm (min) leader tape on every spool.
3. No. of empty places allowed 0.25% without consecutive empty places.
4. Ends of leads shall preferably not protrude beyond the tapes.
5. Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.



DO-41:- 2500 pcs./Ammo Pack
DIODE AMMO PACK

On request also available in 26 mm Tape and Ammo Pack

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
DO-41 T&A	2.5K/ammo box	1.04 kg/2.5K pcs	10" x 3.5" x 3.5"	2.5K	12.7" x 12.7" x 20"	62.5K	30 kgs

Disclaimer

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