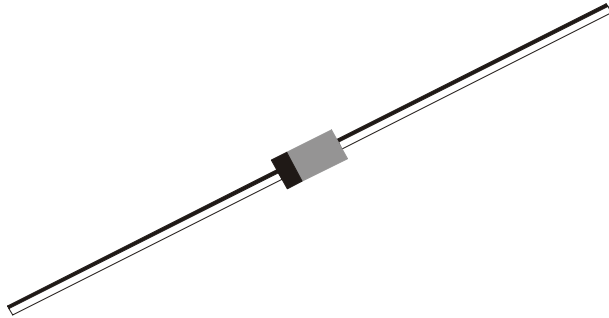




SILICON PLANAR ZENER DIODES

BZX85C 2V7 to 51V
DO-41 1.3W



These Zeners Are Best Suited For Industrial Purpose, Military & Space Applications. When Hermetically Sealed in Glass With Double Stud. This Passivated Chip Provides Excellent Stability & Reliability.

ABSOLUTE MAXIMUM RATINGS (Ta=25 deg C)

DESCRIPTION	SYMBOL	VALUE	UNIT
Power Dissipation (1)	PTA	1.3	W
Surge Power Dissipation pulse Width =10ms	PS	10	W
Operating And Storage Junction Temperature Range	Tj, Tstg	-55 to +175	deg C
Maximum Lead Temperature for Soldering During 10 sec @ 4mm From Case	TL	230	deg C
Thermal Resistance Junction to Ambient (1)	Rth(j-a)	115.4	deg C/mW
Forward Voltage @ IF=200mA	VF	1.0	V

(1) On infinite heatsink with 4mm Lead Length

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless otherwise Specified)

Device	VZT @IZT*		rZT @IZT*	IZT	rZK @IZK	IZK	Temp. Coeff of Zener Voltage typ	IR Ta= 25 deg C	@ 150degC	VR	IZM	IZSM##
	min (V)	max (V)	max (ohm)	(mA)	max (ohm)	(mA)	(%/deg C)	max (uA)	max (uA)	(V)	(mA)	(mA)
BZX85C 2V7	2.50	2.90	20	80	400	1.0	-0.07	150	300	1.0	370	2874
BZX85C 3V0	2.80	3.20	20	80	400	1.0	-0.07	100	300	1.0	340	2604
BZX85C 3V3	3.10	3.50	20	80	400	1.0	-0.06	40	200	1.0	320	2381
BZX85C 3V6	3.40	3.80	20	70	500	1.0	-0.06	20	50	1.0	290	2193
BZX85C 3V9	3.70	4.10	15	60	500	1.0	-0.05	10	20	1.0	280	2033
BZX85C 4V3	4.00	4.60	13	50	500	1.0	-0.03	3.0	10	1.0	250	1812
BZX85C 4V7	4.40	5.00	13	45	500	1.0	-0.01	3.0	10	1.0	215	1667
BZX85C 5V1	4.80	5.40	10	45	500	1.0	+0.01	1.0	10	1.5	200	1543
BZX85C 5V6	5.20	6.00	7	45	400	1.0	+0.03	1.0	10	2.0	190	1389
BZX85C 6V2	5.80	6.60	4	35	300	1.0	+0.04	1.0	10	3.0	170	1263
BZX85C 6V8	6.40	7.20	3.5	35	300	1.0	+0.05	1.0	10	4.0	155	1157
BZX85C 7V5	7.00	7.90	3	35	200	0.5	+0.05	1.0	10	4.5	140	1055
BZX85C 8V2	7.70	8.70	5	25	200	0.5	+0.06	1.0	10	6.2	130	958
BZX85C 9V1	8.50	9.60	5	25	200	0.5	+0.06	1.0	10	6.8	120	868
BZX85C 10	9.40	10.60	7.5	25	200	0.5	+0.07	0.5	10	7.0	105	786
BZX85C 11	10.40	11.60	8	20	300	0.5	+0.07	0.5	10	8.2	97	718
BZX85C 12	11.40	12.70	9	20	350	0.5	+0.07	0.5	10	9.1	88	656
BZX85C 13	12.40	14.10	10	20	400	0.5	+0.07	0.5	10	10	79	591
BZX85C 15	13.80	15.60	15	15	500	0.5	+0.08	0.5	10	11	71	534
BZX85C 16	15.30	17.10	15	15	500	0.5	+0.08	0.5	10	12	66	487
BZX85C 18	16.80	19.10	20	15	500	0.5	+0.08	0.5	10	13	62	436
BZX85C 20	18.80	21.20	24	10	600	0.5	+0.08	0.5	10	15	56	393
BZX85C 22	20.80	23.30	25	10	600	0.5	+0.08	0.5	10	16	52	358
BZX85C 24	22.80	25.60	25	10	600	0.5	+0.08	0.5	10	18	47	326

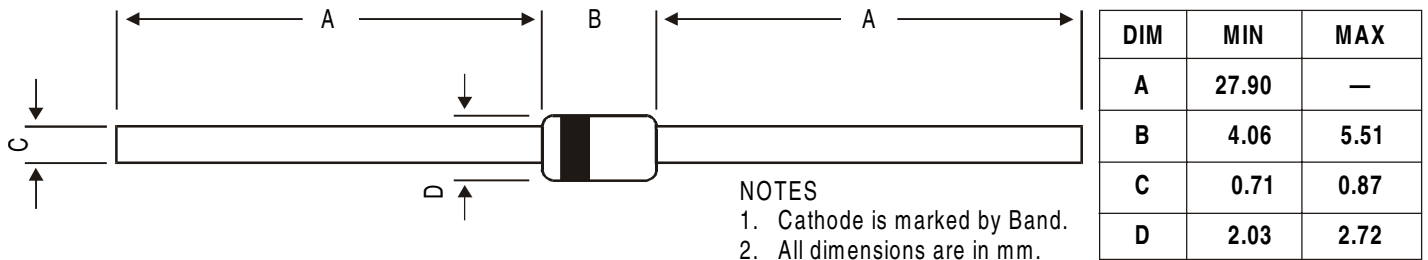
ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless otherwise Specified)

Device	VZT @IZT*		rZT @IZT*	IZT	rZK @IZK	IZK	Temp. Coeff of Zener Voltage	IR Ta= 25 deg C	@ VR	IZM	IZSM##	
	min (V)	max (V)	max (ohm)	max (mA)	max (ohm)	max (mA)	typ (%/deg C)	max (uA)	max (uA)	(V)	(mA)	(mA)
BZX85C 27	25.10	28.90	30	8.0	750	0.25	+0.09	0.5	10	20	41	288
BZX85C 30	28.00	32.00	30	8.0	1000	0.25	+0.09	0.5	10	22	36	260
BZX85C 33	31.00	35.00	35	8.0	1000	0.25	+0.09	0.5	10	24	33	238
BZX85C 36	34.00	38.00	40	8.0	1000	0.25	+0.09	0.5	10	27	30	219
BZX85C 39	37.00	41.00	50	6.0	1000	0.25	+0.09	0.5	10	30	28	203
BZX85C 43	40.00	46.00	50	6.0	1000	0.25	+0.09	0.5	10	33	26	181
BZX85C 47	44.00	50.00	90	4.0	1500	0.25	+0.09	0.5	10	36	23	167
BZX85C 51	48.00	54.00	115	4.0	1500	0.25	+0.09	0.5	10	39	21	154

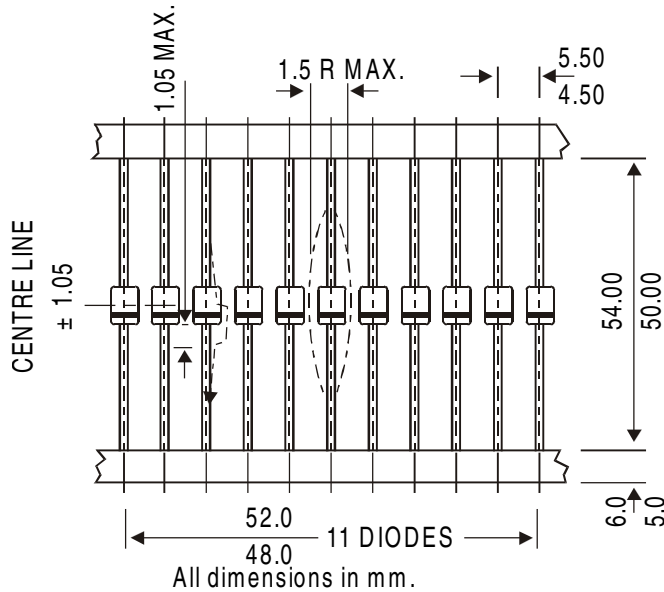
*Pulse Condition : 20ms <=tp<=50ms, Duty Cycle =2%

Rectangular wave form (tp=10ms)

DO-41 Glass Axial Package

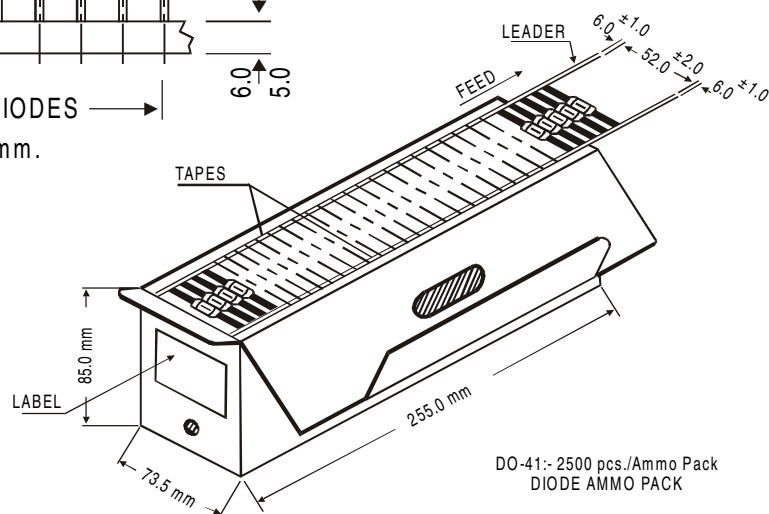


DO-41, 52mm Taping Specification



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.



On request also available in 26 mm Tape and Ammo Pack