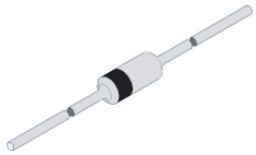
WEITRON

ZJ Series

Axial Lead Zener Diodes

SMALL SIGNAL ZENER DIODES 0.5WATTS

Lead(Pb)-Free



DO-35

Features:

* Low leakage
* High reliability

Applications:

* Voltage stabilization

Construction:

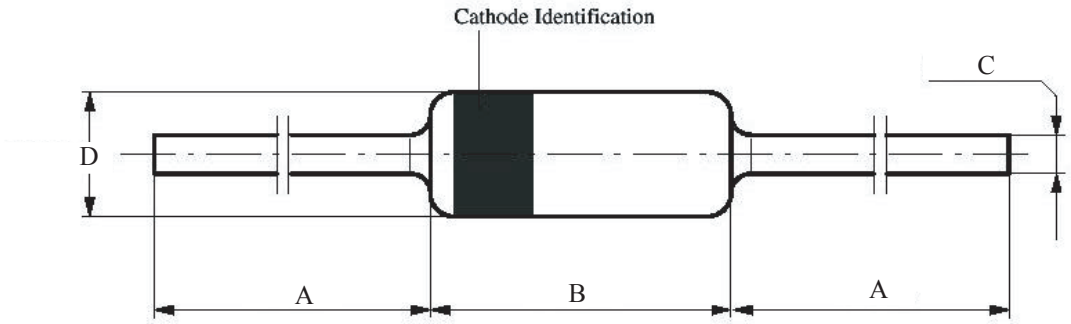
* Silicon epitaxial planar

Mechanical Data:

* Case : DO-35 Glass Case
* Weight : Approx 0.13 gram

DO-35 Outline Dimensions

Unit:mm



	A		B		C		D	
DIM	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**
DO-35	26.0	-	-	4.20	-	0.55	-	2.0

Maximum Ratings and Electrical Characteristics (T_A=25°C Unless Otherwise Noted)

Parameter	Symbol	Value	Unit
Power dissipation $R_{\theta JA} \leq$ 300K/W	P_V	500	mW
Junction ambient on PC board 50mm x 50mm x 1.6mm	$R_{\theta JA}$	500	K/W
Junction temperature	T_j	175	°C
Storage temperature range	T_{stg}	-65~+175	°C

Electrical Characteristics Tj=25°C

Type	Zener voltage				Operating resistance		Rising operating resistance		Reverse current	
	Vz (V)				Zzt (Ω)		Zzk (Ω)		I_R(μA)	
	Rank	Min.	Max.	Iz (mA)	Max.	Iz (mA)	Max.	Iz (mA)	Max.	V_R (V)
ZJ 2.0	A B	1.88 2.02	2.10 2.20	5	100	5	1000	0.5	120	0.5
ZJ 2.2	A B	2.12 2.22	2.30 2.41	5	100	5	1000	0.5	100	0.7
ZJ 2.4	A B	2.33 2.43	2.52 2.63	5	100	5	1000	0.5	120	1.0
ZJ 2.7	A B	2.54 2.69	2.75 2.91	5	110	5	1000	0.5	100	1.0
ZJ 3.0	A B	2.85 3.01	3.07 3.22	5	120	5	1000	0.5	50	1.0
ZJ 3.3	A B	3.16 3.32	3.38 3.53	5	120	5	1000	0.5	20	1.0
ZJ 3.6	A B	3.46 3.60	3.69 3.84	5	100	5	1000	1	10	1.0
ZJ 3.9	A B	3.74 3.89	4.01 4.16	5	100	5	1000	1	5	1.0
ZJ 4.3	A B C	4.04 4.17 4.30	4.29 4.43 4.57	5	100	5	1000	1	5	1.0
ZJ 4.7	A B C	4.44 4.55 4.68	4.68 4.80 4.93	5	90	5	900	1	5	1.0
ZJ 5.1	A B C	4.81 4.94 5.09	5.07 5.20 5.37	5	80	5	800	1	5	1.5
ZJ 5.6	A B C	5.28 5.45 5.61	5.55 5.73 5.91	5	60	5	500	1	5	2.5
ZJ 6.2	A B C	5.78 5.96 6.12	6.09 6.27 6.44	5	60	5	300	1	5	3.0
ZJ 6.8	A B C	6.29 6.49 6.66	6.63 6.83 7.01	5	20	5	150	0.5	2	3.5
ZJ 7.5	A B C	6.85 7.07 7.29	7.22 7.45 7.67	5	20	5	120	0.5	0.5	4.0
ZJ 8.2	A B C	7.53 7.78 8.03	7.92 8.19 8.45	5	20	5	120	0.5	0.5	5.0
ZJ 9.1	A B C	8.29 8.57 8.83	8.73 9.01 9.30	5	25	5	120	0.5	0.5	6.0
ZJ 10	A B C D	9.12 9.41 9.70 9.94	9.59 9.90 10.20 10.44	5	30	5	120	0.5	0.2	7.0

Type	Zener voltage				Operating resistance		Rising operating resistance		Reverse current	
	Vz (V)				Zzt (Ω)		Zzk (Ω)		I_R(μA)	
	Rank	Min.	Max.	Iz (mA)	Max.	Iz (mA)	Max.	Iz (mA)	Max.	V_R (V)
ZJ 11	A	10.18	10.71	5	30	5	120	0.5	0.2	8.0
	B	10.50	11.05							
	C	10.82	11.38							
ZJ 12	A	11.13	11.71	5	30	5	110	0.5	0.2	9.0
	B	11.44	12.03							
	C	11.74	12.35							
ZJ 13	A	12.11	12.75	5	35	5	110	0.5	0.2	10
	B	12.55	13.21							
	C	12.99	13.66							
ZJ 15	A	13.44	14.13	5	40	5	110	0.5	0.2	11
	B	13.89	14.62							
	C	14.35	15.09							
ZJ 16	A	14.80	15.57	5	40	5	150	0.5	0.2	12
	B	15.25	16.04							
	C	15.69	16.51							
ZJ 18	A	16.22	17.06	5	45	5	150	0.5	0.2	13
	B	16.82	17.70							
	C	17.42	18.33							
ZJ 20	A	18.20	18.96	5	55	5	200	0.5	0.2	15
	B	18.63	19.59							
	C	19.23	20.22							
	D	19.72	20.72							
ZJ 22	A	20.15	21.20	5	30	5	200	0.5	0.2	17
	B	20.64	21.71							
	C	21.08	22.17							
	D	21.52	22.63							
ZJ 24	A	22.05	23.18	5	35	5	200	0.5	0.2	19
	B	22.61	23.77							
	C	23.12	24.13							
	D	23.63	24.85							
ZJ 27	A	24.26	25.52	5	45	5	250	0.5	0.2	21
	B	24.97	26.26							
	C	25.63	26.95							
	D	26.29	27.64							
ZJ 30	A	26.99	28.39	5	55	5	250	0.5	0.2	23
	B	27.70	29.13							
	C	28.36	29.82							
	D	29.02	30.51							
ZJ 33	A	29.68	31.22	5	65	5	250	0.5	0.2	25
	B	30.32	31.88							
	C	30.90	32.50							
	D	31.49	33.11							
ZJ 36	A	32.14	33.79	5	75	5	250	0.5	0.2	27
	B	32.79	34.49							
	C	33.40	35.13							
	D	34.01	35.77							
ZJ 39	A	34.68	36.47	5	85	5	250	0.5	0.2	30
	B	35.36	37.19							
	C	36.00	37.85							
	D	36.63	38.52							