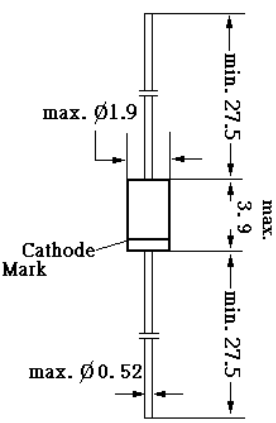


BZX79B2V7~120V

ZENER DIODES

Features

- The Zener voltages are graded according to the international E 24 standard.
- Tolerance $\pm 2\%$



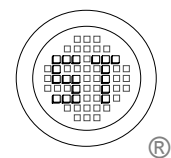
Glass case JEDEC DO-35

Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

	Symbol	Value	Unit
Zener current see table "Characteristics"			
Power Dissipation	P_{tot}	500 ⁽¹⁾	mW
Junction Temperature	T_j	-65 to +200	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-65 to +200	$^{\circ}\text{C}$
Continuous forward current	I_F	250	mA
Thermal resistance junction to ambient air	$R_{\theta JA}$	0.3 ¹⁾	$^{\circ}\text{C}/\text{mW}$
Peak reverse power dissipation (non-repetitive) $t_p = 100\mu\text{s}$ square wave	P_{ZSM}	40	W

Notes: 1) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.



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Dated : 14/07/2005

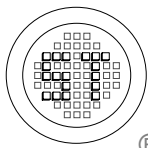
BZX79B2V7~120V

Characteristics at $T_a = 25^\circ\text{C}$, $V_F = 1.5\text{V}$, $I_F = 100\text{mA}$

Type	Zener Voltage (Note 1)			Impedance (Ohm) @ I_{ZT} $f = 1000\text{Hz}$	Leakage Current (μA)		Temp. Coefficient (Typical) (mV/ $^\circ\text{C}$)		Capacitance (Typical) (pF) $V_R=0$, $f=1\text{MHz}$
	Min.	Max.	I_Z (mA)	Max (Note 2)	Max.	@ V_R (Volt)	Min	Max.	
BZX79B2V7	2.64	2.76	5	100	75	1	-3.5	0	230
BZX79B3V0	2.94	3.06	5	95	50	1	-3.5	0	215
BZX79B3V3	3.23	3.37	5	95	25	1	-3.5	0	200
BZX79B3V6	3.52	3.68	5	90	15	1	-3.5	0	185
BZX79B3V9	3.82	3.98	5	90	10	1	-3.5	+0.3	175
BZX79B4V3	4.21	4.39	5	90	5	1	-3.5	+1	160
BZX79B4V7	4.60	4.80	5	80	3	2	-3.5	+0.2	130
BZX79B5V1	4.99	5.21	5	60	2	2	-2.7	+1.2	110
BZX79B5V6	5.48	5.72	5	40	1	2	-2	+2.5	95
BZX79B6V2	6.07	6.33	5	10	3	4	0.4	3.7	90
BZX79B6V8	6.66	6.94	5	15	2	4	1.2	4.5	85
BZX79B7V5	7.35	7.65	5	15	1	5	2.5	5.3	80
BZX79B8V2	8.03	8.37	5	15	0.7	5	3.2	6.2	75
BZX79B9V1	8.91	9.29	5	15	0.5	6	3.8	7	70
BZX79B10	9.80	10.20	5	20	0.2	7	4.5	8	70
BZX79B11	10.78	11.22	5	20	0.1	8	5.4	9	65
BZX79B12	11.76	12.24	5	25	0.1	8	6	10	65
BZX79B13	12.74	13.26	5	30	0.1	8	7	11	60
BZX79B15	14.70	15.30	5	30	0.05	10.5	9.2	13	55
BZX79B16	15.68	16.32	5	40	0.05	11.2	10.4	14	52
BZX79B18	17.64	18.36	5	45	0.05	12.6	12.9	16	47
BZX79B20	19.60	20.40	5	55	0.05	14	14.4	18	36
BZX79B22	21.56	22.44	5	55	0.05	15.4	16.4	20	34
BZX79B24	23.52	24.48	5	70	0.05	16.8	18.4	22	33
BZX79B27	26.46	27.54	2	80	0.05	18.9		23.5	30
BZX79B30	29.40	30.60	2	80	0.05	21		26	27
BZX79B33	32.34	33.66	2	80	0.05	23.1		29	25
BZX79B36	35.28	36.72	2	90	0.05	25.2		31	23
BZX79B39	38.22	39.78	2	130	0.05	27.3		34	21
BZX79B43	42.14	43.86	2	150	0.05	30.1		37	21
BZX79B47	46.06	47.94	2	170	0.05	32.9		40	19
BZX79B51	49.98	52.02	2	180	0.05	35.7		44	19
BZX79B56	54.88	57.12	2	200	0.05	39.2		47	18
BZX79B62	60.76	63.24	2	215	0.05	43.4		51	17
BZX79B68	66.64	69.36	2	240	0.05	47.6		56	17
BZX79B75	73.50	76.50	2	255	0.05	52.5		60	16.5
BZX79B82	80.36	83.64	2	280	0.1	62	46	95	29
BZX79B91	89.18	92.82	2	300	0.1	69	51	107	28
BZX79B100	98.00	102.00	1	500	0.1	76	57	119	27
BZX79B110	107.80	112.20	1	650	0.1	84	63	131	26
BZX79B120	117.60	122.4	1	800	0.1	91	69	144	24
BZX79B130	127.40	132.60	1	950	0.1	99	75	158	23
BZX79B150	147.00	153.00	1	1250	0.1	114	87	185	21
BZX79B160	156.80	163.20	1	1400	0.1	122	93	200	20
BZX79B180	176.40	183.60	1	1700	0.1	137	105	228	18
BZX79B200	196.00	204.00	1	2000	0.1	152	120	255	17

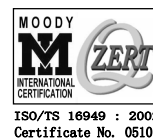
Notes: 1) Zener voltage is measured under pulse conditions such that T_J is no more than 2°C above T_A

- 2) Z_{ZT} is measured by dividing the ac voltage drop across the device by the ac current applied. The specified limits are for $I_Z(\text{ac}) = 0.1I_Z(\text{dc})$ with the ac frequency = 1KHz
- 3) Tested with pulses $t_p = 20\text{ ms}$.



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 950-1559-04-002-04

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