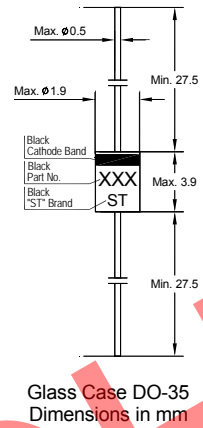


BZX79B

Silicon Planar Zener Diodes

Features

- Zener Voltage Tolerance $\pm 2\%$



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

Parameter	Symbol	Value	Unit
Continuous Forward Current	I_F	250	mA
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 175	$^\circ\text{C}$

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

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 100\text{ mA}$	V_F	1.5	V

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



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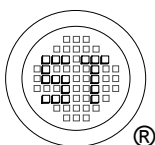
Dated : 10/09/2009

BZX79B

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Zener Voltage Range ¹⁾			Dynamic Resistance		Reverse Leakage Current	
	V_{ZT}		at I_{ZT}	Z_{ZT}	at I_{ZT}	I_R	at V_R
	Min. (V)	Max. (V)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)
BZX79B2V7	2.64	2.76	5	100	5	75	1
BZX79B3V0	2.94	3.06	5	95	5	50	1
BZX79B3V3	3.23	3.37	5	95	5	25	1
BZX79B3V6	3.52	3.68	5	90	5	15	1
BZX79B3V9	3.82	3.98	5	90	5	10	1
BZX79B4V3	4.21	4.39	5	90	5	5	1
BZX79B4V7	4.6	4.8	5	80	5	3	2
BZX79B5V1	4.99	5.21	5	60	5	2	2
BZX79B5V6	5.48	5.72	5	40	5	1	2
BZX79B6V2	6.07	6.33	5	10	5	3	4
BZX79B6V8	6.66	6.94	5	15	5	2	4
BZX79B7V5	7.35	7.65	5	15	5	1	5
BZX79B8V2	8.03	8.37	5	15	5	0.7	5
BZX79B9V1	8.91	9.29	5	15	5	0.5	6
BZX79B10	9.8	10.2	5	20	5	0.2	7
BZX79B11	10.78	11.22	5	20	5	0.1	8
BZX79B12	11.76	12.24	5	25	5	0.1	8
BZX79B13	12.74	13.26	5	30	5	0.1	8
BZX79B15	14.7	15.3	5	30	5	0.05	10.5
BZX79B16	15.68	16.32	5	40	5	0.05	11.2
BZX79B18	17.64	18.36	5	45	5	0.05	12.6
BZX79B20	19.60	20.4	5	55	5	0.05	14
BZX79B22	21.56	22.44	5	55	5	0.05	15.4
BZX79B24	23.52	24.48	5	70	5	0.05	16.8
BZX79B27	26.46	27.54	2	80	2	0.05	18.9
BZX79B30	29.4	30.6	2	80	2	0.05	21
BZX79B33	32.34	33.66	2	80	2	0.05	23.1
BZX79B36	35.28	36.72	2	90	2	0.05	25.2
BZX79B39	38.22	39.78	2	130	2	0.05	27.3
BZX79B43	42.14	43.86	2	150	2	0.05	30.1
BZX79B47	46.06	47.94	2	170	2	0.05	32.9
BZX79B51	49.98	52.02	2	180	2	0.05	35.7
BZX79B56	54.88	57.12	2	200	2	0.05	39.2
BZX79B62	60.76	63.24	2	215	2	0.05	43.4
BZX79B68	66.64	69.36	2	240	2	0.05	47.6
BZX79B75	73.5	76.5	2	255	2	0.05	52.5

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.



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