



SENSITRON SEMICONDUCTOR

ZENER DIODES

OPERATING AND STORAGE TEMPERATURE -55°C TO+200°C

500mW ZENER DIODES / DO-35/DL-35 (MINI MELF)



TYPE	Nominal Zener Voltage V _Z @ I _{ZT}		Test Current I _{Zr}	Maximum Zener Impedance		I _{ZK}	Maximum Reverse Leakage Current		Typical Temperature Coefficient	Maximum Regulator Current I _{ZM}	
	Min	Max		mA	Z _{ZT} @I _{ZT}		Z _{ZT} @I _{ZK}	I _R			@V _R
					Ohms		Ohms				μA
BZX / BZV 55 C 2V4	2.28	2.56	5	85	600	1	50	1	-0.085	155	
BZX / BZV 55 C 2V7	2.5	2.9	5	85	600	1	10	1	-0.080	135	
BZX / BZV 55 C 3V0	2.8	3.2	5	85	600	1	4	1	-0.075	125	
BZX / BZV 55 C 3V3	3.1	3.5	5	85	600	1	2	1	-0.070	115	
BZX / BZV 55 C 3V6	3.4	3.8	5	85	600	1	2	1	-0.065	105	
BZX / BZV 55 C 3V9	3.7	4.1	5	85	600	1	2	1	-0.060	95	
BZX / BZV 55 C 4V3	4.0	4.6	5	75	600	1	1	1	±0.055	90	
BZX / BZV 55 C 4V7	4.4	5.0	5	60	600	1	0.5	1	±0.030	85	
BZX / BZV 55 C 5V1	4.8	5.4	5	35	550	1	0.1	1	±0.030	80	
BZX / BZV 55 C 5V6	5.2	6.0	5	25	450	1	0.1	1	-0.038	70	
BZX / BZV 55 C 6V2	5.8	6.6	5	10	200	1	0.1	2	+0.045	64	
BZX / BZV 55 C 6V8	6.4	7.2	5	8	150	1	0.1	3	+0.050	58	
BZX / BZV 55 C 7V5	7.0	7.9	5	7	50	1	0.1	5	+0.058	53	
BZX / BZV 55 C 8V2	7.7	8.7	5	7	50	1	0.1	6.2	+0.062	74	
BZX / BZV 55 C 9V1	8.5	9.6	5	10	50	1	0.1	6.8	+0.068	43	
BZX / BZV 55 C 10	9.4	10.6	5	15	70	1	0.1	7.5	+0.075	40	
BZX / BZV 55 C 11	10.4	11.6	5	20	70	1	0.1	8.2	+0.076	36	
BZX / BZV 55 C 12	11.4	12.7	5	20	90	1	0.1	9.1	+0.077	32	
BZX / BZV 55 C 13	12.4	14.1	5	26	110	1	0.1	10	+0.079	29	
BZX / BZV 55 C 15	13.8	15.6	5	30	110	1	0.1	11	+0.082	27	
BZX / BZV 55 C 16	15.3	17.1	5	40	170	1	0.1	12	+0.083	24	
BZX / BZV 55 C 18	16.8	19.1	5	50	170	1	0.1	13	+0.085	21	
BZX / BZV 55 C 20	18.8	21.2	5	55	220	1	0.1	15	+0.086	20	
BZX / BZV 55 C 22	20.8	23.3	5	55	220	1	0.1	16	+0.087	18	
BZX / BZV 55 C 24	22.8	25.6	5	80	220	1	0.1	18	+0.088	16	
BZX / BZV 55 C 27	25.1	28.9	5	80	220	1	0.1	20	+0.090	14	
BZX / BZV 55 C 30	28	32	5	80	220	1	0.1	22	+0.091	13	
BZX / BZV 55 C 33	31	35	5	80	220	1	0.1	24	+0.092	12	
BZX / BZV 55 C 36	34	38	5	80	220	1	0.1	27	+0.093	11	
BZX / BZV 55 C 39	37	41	2.5	90	500	0.5	0.1	30	+0.094	10	
BZX / BZV 55 C 43	40	46	2.5	90	600	0.5	0.1	33	+0.095	9.2	
BZX / BZV 55 C 47	44	50	2.5	110	700	0.5	0.1	36	+0.095	8.5	
BZX / BZV 55 C 51	48	54	2.5	125	700	0.5	0.1	39	+0.096	7.8	
BZX / BZV 55 C 56	52	60	2.5	135	1000	0.5	0.1	43	+0.096	7.0	
BZX / BZV 55 C 62	58	66	2.5	150	1000	0.5	0.1	47	+0.096	6.4	
BZX / BZV 55 C 68	64	72	2.5	200	1000	0.5	0.1	51	+0.096	5.9	
BZX / BZV 55 C 75	70	80	2.5	250	1500	0.5	0.1	56	+0.096	5.3	
BZX / BZV 55 C 82	77	87	2.5	300	2000	0.5	0.1	62	+0.096	4.8	
BZX / BZV 55 C 91	85	96	1	450	5000	0.1	0.1	68	+0.096	4.4	
BZX / BZV 55 C 100	94	106	1	450	5000	0.1	0.1	75	+0.096	4.0	
BZX / BZV 55 C 110	104	116	1	600	5000	0.1	0.1	82	+0.096	3.6	
BZX / BZV 55 C 120	114	127	1	800	5000	0.1	0.1	91	+0.096	3.3	
BZX / BZV 55 C 130	124	141	1	1000	5000	0.1	0.1	100	+0.096	3.0	
BZX / BZV 55 C 150	138	156	1	1200	5000	0.1	0.1	110	+0.096	2.6	
BZX / BZV 55 C 160	153	171	1	1500	5000	0.1	0.1	120	+0.096	2.5	
BZX / BZV 55 C 180	168	191	1	1800	5000	0.1	0.1	130	+0.096	2.2	
BZX / BZV 55 C 188	188	212	1	2000	5000	0.1	0.1	150	+0.096	2.0	

NOTE: 1. Normal Tolerance $\pm 5\%$.

2. "BZX..." Indicates Mini Melf Package.



OPERATING AND STORAGE TEMPERATURE -55°C TO +200°C

**500mW ZENER DIODES / DO-35/DL-35 (MINI MELF)**

TYPE	Nominal Zener Voltage $V_Z @ I_{ZT}$	Test Current I_{ZT}	Maximum Zener Impedance		Typical Temperature Coefficient	Maximum Reverse Leakage Current		Maximum Regulator Current I_{ZM}
			$Z_{ZT} @ I_{ZT}$	$Z_{ZT} @ I_{ZK} = 0.25mA$		I_R	@ V_R	
	Volts	mA	Ohms	Ohms	% / °C	μA	Volts	mA
1N5221B	2.4	20	30	1200	-0.085	100	1.0	191
1N5222B	2.5	20	30	1250	-0.085	100	1.0	182
1N5223B	2.7	20	30	1300	-0.080	75	1.0	168
1N5224B	2.8	20	30	1400	-0.080	75	1.0	162
1N5225B	3.0	20	29	1600	-0.075	50	1.0	151
1N5226B	3.3	20	28	1600	-0.070	25	1.0	138
1N5227B / DL5227B	3.6	20	24	1700	-0.065	15	1.0	126
1N5228B / DL5228B	3.9	20	23	1900	-0.060	10	1.0	115
1N5229B / DL5229B	4.3	20	22	2000	± 0.055	5.0	1.0	106
1N5230B / DL5230B	4.7	20	19	1900	± 0.030	5.0	2.0	97
1N5231B / DL5231B	5.1	20	17	1600	± 0.030	5.0	2.0	89
1N5232B / DL5232B	5.6	20	11	1600	+0.038	5.0	3.0	81
1N5233B / DL5233B	6.0	20	7	1600	+0.038	5.0	3.5	76
1N5234B / DL5234B	6.2	20	7	1000	+0.045	5.0	4.0	73
1N5235B / DL5235B	6.8	20	5	750	+0.050	3.0	5.0	67
1N5236B / DL5236B	7.5	20	6	500	+0.058	3.0	6.0	61
1N5237B / DL5237B	8.2	20	8	500	+0.062	3.0	6.5	55
1N5238B / DL5238B	8.7	20	8	600	+0.065	3.0	6.5	52
1N5239B / DL5239B	9.1	20	10	600	+0.068	3.0	7.0	50
1N5240B / DL5240B	10	20	17	600	+0.075	3.0	8.0	45
1N5241B / DL5241B	11	20	22	600	+0.076	2.0	8.4	41
1N5242B / DL5242B	12	20	30	600	+0.077	1.0	9.1	38
1N5243B / DL5243B	13	9.5	13	600	+0.079	0.5	9.9	35
1N5244B / DL5244B	14	9.0	15	600	+0.082	0.1	10	32
1N5245B / DL5245B	15	8.5	16	600	+0.082	0.1	11	30
1N5246B / DL5246B	16	7.8	17	600	+0.083	0.1	12	28
1N5247B / DL5247B	17	7.4	19	600	+0.084	0.1	13	27
1N5248B / DL5248B	18	7.0	21	600	+0.085	0.1	14	25
1N5249B / DL5249B	19	6.6	23	600	+0.085	0.1	14	24
1N5250B / DL5250B	20	6.2	25	600	+0.086	0.1	15	23
1N5251B / DL5251B	22	5.6	29	600	+0.087	0.1	17	21.2
1N5252B / DL5252B	24	5.2	33	600	+0.088	0.1	18	19.1
1N5253B / DL5253B	25	5.0	35	600	+0.089	0.1	19	18.2
1N5254B / DL5254B	27	4.6	41	600	+0.090	0.1	21	16.8
1N5255B / DL5255B	28	4.5	44	600	+0.091	0.1	21	16.2
1N5256B / DL5256B	30	4.2	49	600	+0.091	0.1	23	15.1
1N5257B / DL5257B	33	3.8	58	700	+0.092	0.1	25	13.8
1N5258B / DL5258B	36	3.4	70	700	+0.093	0.1	27	12.6
1N5259B / DL5259B	39	3.2	80	800	+0.094	0.1	30	11.5
1N5260B / DL5260B	43	3.0	93	900	+0.095	0.1	33	10.6
1N5261B / DL5261B	47	2.7	150	1000	+0.095	0.1	36	9.7
1N5262B / DL5262B	51	2.5	125	1100	+0.096	0.1	39	8.9
1N5263B	56	2.2	150	1300	+0.096	0.1	43	8.1

NOTE: 1. "DL" Indicates Mini Melf Package.**2. SUFFIX "B" Indicates $\pm 5\%$ Tolerance.**

OPERATING AND STORAGE TEMPERATURE -55°C TO $+200^{\circ}\text{C}$ **1W ZENER DIODES / DO-41/DL-41 (MINI MELF)**

TYPE	Nominal Zener Voltage $V_Z @ I_{ZT}$	Test Current I_{ZT}	Maximum Zener Impedance		I_{ZK}	Maximum Reverse Leakage Current		Maximum Surge Current I_R	Maximum Regulator Current I_{ZM}
			$Z_{ZT}@I_{ZT}$	$Z_{ZT}@I_{ZK}$		I_R	@ V_R		
			Ohms	Ohms		μA	Volts		
1N4728A	3.3	76	10	400	1.0	100	1.0	1380	276
1N4729A	3.6	69	10	400	1.0	100	1.0	1260	252
1N4730A	3.9	64	9.0	400	1.0	50	1.0	1170	234
1N4731A /DL4731A	4.3	58	9.0	400	1.0	10	1.0	1085	217
1N4732A /DL4732A	4.7	53	8.0	500	1.0	10	1.0	965	193
1N4733A /DL4733A	5.1	49	7.0	550	1.0	10	1.0	890	178
1N4734A /DL4734A	5.6	45	5.0	600	1.0	10	2.0	810	162
1N4735A /DL4735A	6.2	41	2.0	700	1.0	10	3.0	730	146
1N4736A /DL4736A	6.8	37	3.5	700	1.0	10	4.0	660	133
1N4737A /DL4737A	7.5	34	4.0	700	0.5	10	5.0	605	121
1N4738A /DL4738A	8.2	31	4.5	700	0.5	10	6.0	550	110
1N4739A /DL4739A	9.1	28	5.0	700	0.5	10	7.0	500	100
1N4740A /DL4740A	10	25	7.0	700	0.25	10	7.6	454	91
1N4741A /DL4741A	11	23	8.0	700	0.25	5.0	8.4	414	83
1N4742A /DL4742A	12	21	9.0	700	0.25	5.0	9.1	380	76
1N4743A /DL4743A	13	19	10	700	0.25	5.0	9.9	344	69
1N4744A /DL4744A	15	17	14	700	0.25	5.0	11.4	304	61
1N4745A /DL4745A	16	15.5	16	700	0.25	5.0	12.2	285	57
1N4746A /DL4746A	18	14	20	750	0.25	5.0	13.7	250	50
1N4747A /DL4747A	20	12.5	22	750	0.25	5.0	15.2	225	45
1N4748A /DL4748A	22	11.5	23	750	0.25	5.0	16.7	205	41
1N4749A /DL4749A	24	10.5	25	750	0.25	5.0	18.2	190	38
1N4750A /DL4750A	27	9.5	35	750	0.25	5.0	20.6	170	34
1N4751A /DL4751A	30	8.5	40	1000	0.25	5.0	22.8	150	30
1N4752A /DL4752A	33	7.5	45	1000	0.25	5.0	25.1	135	27
1N4753A /DL4753A	36	7.0	50	1000	0.25	5.0	27.4	125	25
1N4754A /DL4754A	39	6.5	60	1000	0.25	5.0	29.7	115	23
1N4755A /DL4755A	43	6.0	70	1500	0.25	5.0	32.7	110	22
1N4756A /DL4756A	47	5.5	80	1500	0.25	5.0	35.8	95	16
1N4757A /DL4757A	51	5.0	95	1500	0.25	5.0	38.8	90	18
1N4758A /DL4758A	56	4.5	110	2000	0.25	5.0	42.6	80	16
1N4759A /DL4759A	63	4.0	125	2000	0.25	5.0	47.1	70	14
1N4760A /DL4760A	68	3.7	150	2000	0.25	5.0	51.7	65	13
1N4761A /DL4761A	75	3.3	175	2000	0.25	5.0	56.0	60	12
1N4762A /DL4762A	82	3.0	200	2000	0.25	5.0	62.2	55	11
1N4763A /DL4763A	91	2.8	250	2000	0.25	5.0	69.2	50	10
1N4764A /DL4764A	100	2.5	350	2000	0.25	5.0	76.0	45	9

NOTE: 1. "DL" Indicates Minimelf Package.**2. Suffix "B" Indicates $\pm 5\%$ Tolerance.**