

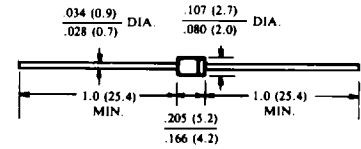
ZENER DIODES

1 WATT ZENER DIODE-PLASTIC

OPERATING AND STORAGE TEMPERATURE - 65°C to + 175°C

IN4736 THRU IN4764

*ELECTRICAL CHARACTERISTICS (T _A = 25°C unless otherwise noted) V _r = 1.2 V Max, I _r = 200 mA for all types.									OUTLINE INCHES (mm)
JEDEC Type No.	Nominal Zener Voltage V _Z @ I _{Z1} Volts	Test Current I _{Z1} mA	Maximum Zener Impedance			Leakage Current		Surge Current @ T _A = 25°C I _S - mA	
			Z _{Z1} @ I _{Z1} Ohms	Z _{ZK} @ I _{ZK} Ohms	I _{ZK} mA	I _R μA Max	V _R Volts		
1N4736A 1N4737A	6.8 7.5	37 34	3.5 4	700 700	1 0.5	10 10	4 5	660 605	
1N4738A 1N4739A 1N4740A 1N4741A 1N4742A	8.2 9.1 10 11 12	31 28 25 23 21	4.5 5 7 8 9	700 700 700 700 700	0.5 0.5 0.25 0.25 0.25	10 10 10 5 5	6 7 7.6 8.4 9.1	550 500 454 414 380	
1N4743A 1N4744A 1N4745A 1N4746A 1N4747A	13 15 16 18 20	19 17 15.5 14 12.5	10 14 16 20 22	700 700 700 750 750	0.25 0.25 0.25 0.25 0.25	5 5 5 5 5	9.9 11.4 12.2 13.7 15.2	344 304 285 250 225	
1N4748A 1N4749A 1N4750A 1N4751A 1N4752A	22 24 27 30 33	11.5 10.5 9.5 8.5 7.5	23 25 35 40 45	750 750 750 1000 1000	0.25 0.25 0.25 0.25 0.25	5 5 5 5 5	16.7 18.2 20.6 22.8 25.1	205 190 170 150 135	
1N4753A 1N4754A 1N4755A 1N4756A 1N4757A	36 39 43 47 51	7 6.5 6 5.5 5	50 60 70 80 95	1000 1000 1500 1500 1500	0.25 0.25 0.25 0.25 0.25	5 5 5 5 5	27.4 29.7 32.7 35.8 38.8	125 115 110 95 90	
1N4758A 1N4759A 1N4760A 1N4761A 1N4762A 1N4763A 1N4764A	56 62 68 75 82 91 100	4.5 4 3.7 3.3 3 2.8 2.5	110 125 150 175 200 250 350	2000 2000 2000 2000 3000 3000 3000	0.25 0.25 0.25 0.25 0.25 0.25 0.25	5 5 5 5 5 5 5	42.6 47.1 51.7 56 62.2 69.2 76	80 70 65 60 55 50 45	

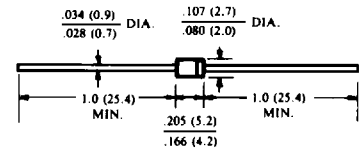


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NOTE: SUFFIX A FOR ± 5%

Z10-110 THRU Z10-330

ELECTRICAL CHARACTERISTICS (T _A = 25°C unless otherwise noted.) (V _r = 1.2 V Max, I _r = 200 mA for all types.)								OUTLINE INCHES (mm)
TYPE	Zener Breakdown Voltage	Dynamic Impedances @ 25°C T _A				Maximum Reverse Current @ Measurement Voltage and 25°C T _A		
		V _Z V	I _{Z1} mA	Z _{Z1} Ohms	I _{ZK} mA	Z _{ZK} Ohms	V _R V	
Z10-110	110	5	750	.25	5000	80	0.5	
Z10-115	115	5	750	.25	5000	85	0.5	
Z10-120	120	5	850	.25	5000	90	0.5	
Z10-130	130	5	1000	.25	5000	95	0.5	
Z10-140	140	5	1200	.25	5000	105	0.5	
Z10-150	150	5	1300	.25	5000	110	0.5	
Z10-160	160	5	1500	.25	5000	120	0.5	
Z10-170	170	5	2200	.25	5000	130	0.5	
Z10-180	180	5	2200	.25	5000	140	0.5	
Z10-190	190	5	2500	.25	5000	150	0.5	
Z10-200	200	5	2500	.25	5000	160	0.5	
Z10-300	300	5	5000	.25	9000	260	0.5	
Z10-330	330	5	5000	.25	9500	280	0.5	

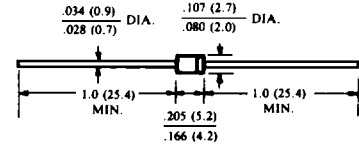


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NOTE: Standard ± 20%, Suffix "A" ± 10%, Suffix "B" ± 5%.

1.5 WATT ZENER DIODE IN5913B THRU IN5956B

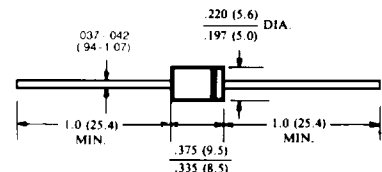
*ELECTRICAL CHARACTERISTICS (T _c = 30°C unless otherwise noted. V _f = 1.5 Volts Max @ I _f = 200 mA for all types.)									OUTLINE INCHES (mm)
JEDEC Type Number	Nominal Zener Voltage V _z @ I _{zT} Volts	Test Current I _{zT} mA	Max. Zener Impedance			Max. Reverse Leakage Current		Maximum DC Zener Current I _{zM} mA	
			Z _{ZT} @ I _{zT} Ohms	Z _{ZK} @ Ohms	I _{ZK} @ mA	I _R @ V _R μA	V _R Volts		
1N5921B	6.8	55.1	2.5	200	1	5	5.2	220	
1N5922B	7.5	50	3	400	0.5	5	6	200	
1N5923B	8.2	45.7	3.5	400	0.5	5	6.5	182	
1N5924B	9.1	41.2	4	500	0.5	5	7	164	
1N5925B	10	37.5	4.5	500	0.25	5	8	150	
1N5926B	11	34.1	5.5	550	0.25	1	8.4	136	
1N5927B	12	31.2	6.5	550	0.25	1	9.1	125	
1N5928B	13	28.8	7	550	0.25	1	9.9	115	
1N5929B	15	25	9	600	0.25	1	11.4	100	
1N5930B	16	23.4	10	600	0.25	1	12.2	93	
1N5931B	18	20.8	12	650	0.25	1	13.7	83	
1N5932B	20	18.7	14	650	0.25	1	15.2	75	
1N5933B	22	17	17.5	650	0.25	1	16.7	68	
1N5934B	24	15.6	19	700	0.25	1	18.2	62	
1N5935B	27	13.9	23	700	.25	1	20.6	55	
1N5936B	30	12.5	26	750	0.25	1	22.8	50	
1N5937B	33	11.4	33	800	0.25	1	25.1	45	
1N5938B	36	10.4	38	850	0.25	1	27.4	41	
1N5939B	39	9.6	45	900	0.25	1	29.7	38	
1N5940B	43	8.7	53	950	0.25	1	32.7	34	
1N5941B	47	8	67	1000	0.25	1	35.8	31	
1N5942B	51	7.3	70	1100	0.25	1	38.8	29	
1N5943B	56	6.7	86	1300	0.25	1	42.6	26	
1N5944B	62	6	100	1500	0.25	1	47.1	24	
1N5945B	68	5.5	120	1700	0.25	1	51.7	22	
1N5946B	75	5	140	2000	0.25	1	56	20	
1N5947B	82	4.6	160	2500	0.25	1	62.2	18	
1N5948B	91	4.1	200	3000	0.25	1	69.2	16	
1N5949B	100	3.7	250	3100	0.25	1	76	15	
1N5950B	110	3.4	300	4000	0.25	1	83.6	13	
1N5951B	120	3.1	380	4500	0.25	1	91.2	12	
1N5952B	130	2.9	450	5000	0.25	1	98.8	11	
1N5953B	150	2.5	600	6000	0.25	1	114	10	
1N5954B	160	2.3	700	6500	0.25	1	121.6	9	
1N5955B	180	2.1	900	7000	0.25	1	136.8	8	
1N5958B	200	1.9	1200	8000	0.25	1	152	7	



DO-41

5 WATT ZENER DIODE IN5342B THRU IN5388B

*ELECTRICAL CHARACTERISTICS (T _A = 25°C unless otherwise noted. V _f = 1.2 Max @ I _f = 1 A for all types)									OUTLINE INCHES (mm)	
JEDEC Type No.	Nominal Zener Voltage V _z @ I _{zT} Volts	Test Current I _{zT} mA	Max Zener Impedance		Max Reverse Leakage Current		Max Surge Current I _r , Amps	Max Voltage Regulation ΔV _z , Volt		Maximum Regulator Current I _{zM} mA
			Z _{ZT} @ I _{zT} Ohms	Z _{ZK} @ I _{ZK} = 1 mA Ohms	I _R @ V _R μA	V _R Volts				
1N5342B	6.8	175	1	200	10	5.2	11.5	0.15	700	
1N5343B	7.5	175	1.5	200	10	5.7	10.7	0.15	630	
1N5344B	8.2	150	1.5	200	10	6.2	10	0.2	580	
1N5345B	8.7	150	2	200	10	6.6	9.5	0.2	545	
1N5346B	9.1	150	2	150	7.5	6.9	9.2	0.22	520	
1N5347B	10	125	2	125	5	7.6	8.6	0.22	475	
1N5348B	11	125	2.5	125	5	8.4	8	0.25	430	
1N5349B	12	100	2.5	125	2	9.1	7.5	0.25	395	
1N5350B	13	100	2.5	100	1	9.9	7	0.25	365	
1N5351B	14	100	2.5	75	1	10.6	6.7	0.25	340	
1N5352B	15	75	2.5	75	1	11.5	6.3	0.25	315	
1N5353B	16	75	2.5	75	1	12.2	6	0.3	295	
1N5354B	17	70	2.5	75	0.5	12.9	5.8	0.35	280	
1N5355B	18	65	2.5	75	0.5	13.7	5.5	0.4	265	
1N5356B	19	65	3	75	0.5	14.4	5.3	0.4	250	
1N5357B	20	65	3	75	0.5	15.2	5.1	0.4	237	
1N5358B	22	50	3.5	75	0.5	16.7	4.7	0.45	216	
1N5359B	24	50	3.5	100	0.5	18.2	4.4	0.55	198	
1N5360B	25	50	4	110	0.5	19	4.3	0.55	190	
1N5361B	27	50	5	120	0.5	20.6	4.1	0.6	176	
1N5362B	28	50	6	130	0.5	21.2	3.9	0.6	170	
1N5363B	30	40	8	140	0.5	22.8	3.7	0.5	158	
1N5364B	33	40	10	150	0.5	25.1	3.5	0.6	144	
1N5365B	36	30	11	160	0.5	27.4	3.3	0.65	132	
1N5366B	39	30	14	170	0.5	29.7	3.1	0.65	122	
1N5367B	43	30	20	190	0.5	32.7	2.8	0.7	110	



DO201AE

5 WATT ZENER DIODE IN5342B THRU IN5388B

*ELECTRICAL CHARACTERISTICS (T _a = 25°C unless otherwise noted, V _f = 1.2 Max @ I _f = 1 A for all types)										
JEDEC Type No.	Nominal Zener Voltage V _z @ I _{zT} Volts	Test Current I _{zT} mA	Max Zener Impedance		Max Reverse Leakage Current		Max Surge Current I _r Amps	Max Voltage Regulation ΔV _z , Volt	Maximum Regulator Current I _{zm} mA	OUTLINE INCHES (mm)
			Z _{zT} @ I _{zT} Ohms	Z _{zK} @ I _{zK} = 1 mA Ohms	I _r @ V _R μA	V _R Volts				
1N5368B	47	25	25	210	0.5	35.8	2.7	0.8	100	
1N5369B	51	25	27	230	0.5	38.8	2.5	0.9	93	
1N5370B	56	20	35	280	0.5	42.6	2.3	1	86	
1N5371B	60	20	40	350	0.5	42.5	2.2	1.2	79	
1N5372B	62	20	42	400	0.5	47.1	2.1	1.35	76	
1N5373B	68	20	44	500	0.5	51.7	2	1.5	70	
1N5374B	75	20	45	620	0.5	56	1.9	1.6	63	
1N5375B	82	15	65	720	0.5	62.2	1.8	1.8	58	
1N5376B	87	15	75	760	0.5	66	1.7	2	54.5	
1N5377B	91	15	75	760	0.5	69.2	1.6	2.2	52.5	
1N5378B	100	12	90	800	0.5	76	1.5	2.5	47.5	
1N5379B	110	12	125	1000	0.5	83.6	1.4	2.5	43	
1N5380B	120	10	170	1150	0.5	91.2	1.3	2.5	39.5	
1N5381B	130	10	190	1250	0.5	98.8	1.2	2.5	36.6	
1N5382B	140	8	230	1500	0.5	106	1.2	2.5	34	
1N5383B	150	8	330	1500	0.5	114	1.1	3	31.6	
1N5384B	160	8	350	1650	0.5	122	1.1	3	29.4	
1N5385B	170	8	380	1750	0.5	129	1	3	28	
1N5386B	180	5	430	1750	0.5	137	1	4	26.4	
1N5387B	190	5	450	1850	0.5	144	0.9	5	25	
1N5388B	200	5	480	1850	0.5	152	0.9	5	23.6	

NOTE: SUFFIX "B" FOR ±5%

SWITCHING DIODES

Operating Temperature -65°C to +200°C

Part No.	INDUSTRY PART NO.	Power Dissipation Pd (mW)	Peak Voltage V _{zm} (V)	Continuous Rev. Current I _R (mA) @ V _R (V)	Forward Voltage V _F (V) @ I _F (mA)	Capacitance C Max. (pF)	Reverse Recovery Time T _{RR} (nS)	OUTLINE (mm)
1N4148 1N4151 1N415 1N4448 1N4454	—	500mW	100 75 35 100	5000 @ 75 50 @ 50 100 @ 25 5000 @ 75	1.0 @ 10 1.0 @ 50 1.0 @ 30 1.0 @ 100	4.0 2.0 4.0 4.0	4.0 2.0 2.0 4.0 2.0	

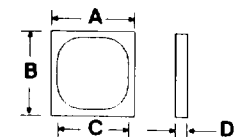
SILICON VARISTOR DIODES

Operating Temperature -65°C to +150°C

Part No.	INDUSTRY PART NO.	Maximum Output Current I _o (mA)	Peak Forward Surge Current @ 8.3ms Superimposed I _{FSM} (A _{PK})	Maximum Forward Voltage @ Ta 25°C @ IF (Both sides) V _{FM} (V)	OUTLINE
VR61	—	500mA	45	2.3 + -0.25 @ 1.0mA 2.75 + -0.25 @ 10.0mA 3.1 + -0.25 @ 70mA	

SURFACE MOUNT GLASS PASSIVATED CHIPS

Part No.	INDUSTRY PART NO.	Max. Average Rectified Current I _o (A)	Peak Inverse Voltage PIV (V)	Pk. Fwd. Surge Current @ 8.3ms Superimposed I _{FSM} (A _{PK})	Max. Forward Voltage @ 25°C @ Rated I _o V _{FM} (V)	Max. Reverse Current @ 25°C @ Rated PIV I _r (μA)	Reverse Recovery Time T _{RR} (nS)	OUTLINE (INCHES ± 0.02 INCH)
RGPP1A RGPP1B RGPP1D RGPP1G	RGPP1A RGPP1B RGPP1D RGPP1G	50 100 200 400	150 150 150 200					
GPP3A GPP3B GPP3D GPP3G GPP3J GPP3K GPP3M	GPP3A GPP3B GPP3D GPP3G GPP3J GPP3K GPP3M	3.0A	50 100 200 400 600 800 1000	150	1.0	5.0	— — — — — — —	A: .100 B: .100 C: .080 D: .011
RGPP3A RGPP3B RGPP3D RGPP3G	RGPP3A RGPP3B RGPP3D RGPP3G		50 100 200 400					
GPP5A GPP5B GPP5D GPP5G	GPP5A GPP5B GPP5D GPP5G	5.0A	50 100 200 400	400	1.0	10.0	— — — —	A: .170 B: .170 C: .150 D: .011
RGPP5A RGPP5B RGPP5D RGPP5G	RGPP5A RGPP5B RGPP5D RGPP5G		50 100 200 400					



Metalization: Gold on Nickel

SPECIAL SIZE AND HIGHER VOLTAGE CHIPS ARE ALSO AVAILABLE