

## 稳压二极管

### ZENER DIODES

1N5221 thru 1N5272 ELECTRICAL CHARACTERISTICS 电性参数

(TA=25°C unless otherwise noted. Based on dc measurements at thermal equilibrium, lead length=30° thermal resistance of heat sink

=30°C/W) (Vr=1.1max. Ir=200 mA for all types) (Tr=25°C 所有型号 Vmax=1.1V Ir=200mA)

型号 JEDEC Type No. (Note 1)	稳压值 Nominal Zener Voltage Vz Volts	测试电流 Test Current Iz mA	动态阻抗 Max Zener Impedance A and B Suffix only		漏电流 Max Reverse Leakage Current				温度系数 Max Zener Voltage Temperature Coeff. (A and Suffix only) VZ(%/°C)
			Zer ohms	Zin @ Izs=0.15mA Ohms	A and B Suffix only		IR @ Vr Used for Suffix A µA		
					Iz µA	@ A B		Vz Volts	
1N5221	2.4	20	30	1200	100	0.95	1.0	200	-0.085
1N5222	2.5	20	30	1250	100	0.95	1.0	200	-0.085
1N5223	2.7	20	30	1300	75	0.95	1.0	150	-0.088
1N5224	2.8	20	30	1400	75	0.95	1.0	150	-0.088
1N5225	3.0	20	29	1600	50	0.95	1.0	100	-0.075
1N5226	3.3	20	28	1600	25	0.95	1.0	100	-0.078
1N5227	3.6	20	24	1700	15	0.95	1.0	100	-0.065
1N5228	3.9	20	23	1900	10	0.95	1.0	75	-0.060
1N5229	4.3	20	22	2000	5.0	0.95	1.0	50	0.055
1N5230	4.7	20	19	1900	5.0	1.9	2.0	50	0.070
1N5231	5.1	20	17	1600	5.0	1.9	2.0	50	0.070
1N5232	5.6	20	11	1600	5.0	2.9	3.0	50	0.038
1N5233	6.0	20	7.0	1600	5.0	3.3	3.3	50	0.078
1N5234	6.2	20	7.0	1000	5.0	3.8	4.0	50	0.045
1N5235	6.8	20	5.0	750	3.0	4.8	5.0	30	+0.050
1N5236	7.5	20	6.0	500	3.0	5.7	6.0	30	0.058
1N5237	8.2	20	8.0	500	3.0	6.2	6.5	30	+0.062
1N5238	8.7	20	8.0	600	3.0	6.2	6.5	30	+0.065
1N5239	9.1	20	10	600	3.0	6.7	7.0	30	0.068
1N5240	10	20	17	600	3.0	7.6	8.0	30	+0.075
1N5241	11	20	22	600	2.0	8.0	8.4	30	+0.076
1N5242	12	20	30	600	1.0	8.7	9.1	10	0.077
1N5243	15	9.5	13	600	0.5	9.4	9.9	10	+0.079
1N5244	14	9.0	15	600	0.1	9.5	10	10	+0.082
1N5245	15	8.5	16	600	0.1	10.5	11	10	0.082
1N5246	16	7.8	17	600	0.1	11.4	12	10	+0.083
1N5247	17	7.4	19	600	0.1	12.4	13	10	-0.084
1N5248	18	7.0	21	600	0.1	13.3	14	10	+0.085
1N5249	19	6.8	25	600	0.1	13.3	14	10	+0.086
1N5250	20	6.2	25	600	0.1	14.3	15	10	+0.086
1N5251	22	5.6	29	600	0.1	16.2	17	10	-0.087
1N5252	24	5.2	33	600	0.1	17.1	18	10	+0.088
1N5253	25	5.0	35	600	0.2	18.1	19	10	+0.089
1N5254	27	4.6	41	600	0.1	20	21	10	+0.090
1N5255	28	4.5	44	600	0.1	20	21	10	0.091
1N5256	30	4.2	49	600	0.1	22	23	10	+0.091
1N5257	33	3.8	58	700	0.1	24	25	10	+0.092
1N5258	36	3.4	70	700	0.1	26	27	10	0.093
1N5259	39	3.2	80	800	0.1	29	30	10	+0.094
1N5260	43	3.0	95	900	0.1	31	33	10	+0.095
1N5261	47	2.7	105	1000	0.1	34	36	10	0.095
1N5262	51	2.5	125	1100	0.1	37	39	10	0.096
1N5263	56	2.2	150	1300	0.1	41	43	10	+0.096
1N5264	60	2.1	170	1400	0.1	44	46	10	+0.097
1N5265	62	2.0	185	1400	0.1	45	47	10	+0.097
1N5266	68	1.8	230	1600	0.1	49	52	10	+0.097
1N5267	75	1.7	270	1700	0.1	53	56	10	+0.098
1N5268	82	1.5	330	2000	0.1	59	62	10	+0.098
1N5269	87	1.4	370	2200	0.1	65	68	10	+0.099
1N5270	91	1.4	400	2300	0.1	66	69	10	+0.099
1N5271	100	1.3	500	2600	0.1	72	76	10	+0.110
1N5272	110	1.1	750	3000	0.1	80	84	10	+0.110

NOTE 1: Tolerance - The JEDEC type numbers shown indicate a tolerance of  $\pm 10\%$  with guaranteed limits on only Vz, Iz and Vr as shown in the electrical characteristics are indicated by suffix "A" for  $\pm 10\%$  tolerance and suffix "B" for  $\pm 5\%$  units.

注1: 均为中心值, 其中Vz和Vr均按 $\pm 10\%$ 精度制造, Vz按 $\pm 5\%$ 精度制造。

# ZENER DIODES

1N4728A through 1N4764A \*ELECTRICAL CHARACTERISTICS 电性参数

(Ta=25°C unless otherwise noted)

Vz=1.2V Max I<sub>z</sub>=200 mA for all types Ta=25°C 所有型号 Vz<sub>max</sub> 1.2V I<sub>z</sub>=200mA

型号 JEDEC TYPE NO (NOTE 1)	额定值 Nominal Zener Voltage V <sub>Z</sub> (ref) Volts	测试电流 Test Current I <sub>T</sub> mA	最大动态阻抗 Max Zener Impedance A and B Suffix only			漏流 Leakage Current		浪涌电流 Surge Current I <sub>SM</sub> mA
			Z <sub>0</sub> alt <sup>a</sup> Ohms	Z <sub>0</sub> alt <sup>b</sup> Ohms	I <sub>zk</sub> mA	I <sub>z</sub> µA Max	V <sub>z</sub> Volts	
1N4728A	3.3	76	10	400	1	100	1	1380
1N4729A	3.6	69	10	400	1	100	1	1260
1N4730A	3.9	64	9	400	1	50	1	1190
1N4731A	4.3	58	9	400	1	10	1	1070
1N4732A	4.7	53	8	500	1	10	1	970
1N4733A	5.1	49	7	550	1	10	1	890
1N4734A	5.6	45	5	600	1	10	2	810
1N4735A	6.2	41	2	700	1	10	3	730
1N4736A	6.8	37	3.5	700	1	10	4	660
1N4737A	7.5	37	4	700	0.5	10	5	605
1N4738A	8.2	31	4.5	700	0.5	10	6	550
1N4739A	9.1	28	5	700	0.5	10	7	500
1N4740A	10	25	7	700	0.25	10	7.6	454
1N4741A	11	23	8	700	0.25	5	8.4	414
1N4742A	12	21	9	700	0.25	5	9.1	390
1N4743A	13	19	10	700	0.25	5	9.9	344
1N4744A	15	17	14	700	0.25	5	11.4	304
1N4745A	16	15.5	18	700	0.25	5	12.2	285
1N4746A	18	14	20	750	0.25	5	13.7	250
1N4747A	20	12.5	22	750	0.25	5	16.2	225
1N4748A	22	11.5	23	750	0.25	5	16.7	205
1N4749A	24	10.5	25	750	0.25	5	18.2	180
1N4750A	27	9.5	35	750	0.25	5	20.5	170
1N4751A	30	8.5	40	1000	0.25	5	22.8	150
1N4752A	33	7.5	45	1000	0.25	5	25.1	135
1N4753A	36	7	50	1000	0.25	5	27.4	125
1N4754A	39	6.5	60	1000	0.25	5	29.7	115
1N4755A	43	6	70	1500	0.25	5	32.7	110
1N4756A	47	5.5	80	1500	0.25	5	35.8	95
1N4757A	51	5	95	1500	0.25	5	38.8	90
1N4758A	56	4.5	110	2000	0.25	5	42.6	80
1N4759A	62	4	125	2000	0.25	5	47.1	70
1N4760A	68	3.7	150	2000	0.25	5	51.7	65
1N4761A	75	3.3	175	2000	0.25	5	58	60
1N4762A	82	3	200	3000	0.25	5	62.2	55
1N4763A	91	2.8	250	3000	0.25	5	69.2	50
1N4764A	100	2.5	350	3000	0.25	5	76	45

\*Indicates JEDEC Registered Data

NOTE 1. TOLERANCE AND TYPE NUMBER DESIGNATION  
THE JEDEC TYPE NUMBERS LISTED HAVE A STANDARD  
TOLERANCE ON THE NOMINAL ZENER VOLTAGE OF 0.5%

注1. Vz容差控制在±0.5%

# ZENER DIODES

1N4728A through 1N4764A \*ELECTRICAL CHARACTERISTICS 电性参数

(Ta=25°C unless otherwise noted)

Vz=1.2V Max I<sub>z</sub>=200 mA for all types Ta=25°C 所有型号 Vz<sub>max</sub> 1.2V I<sub>z</sub>=200mA

型号 JEDEC TYPE NO (NOTE 1)	额定值 Nominal Zener Voltage V <sub>Z</sub> (ref) Volts	测试电流 Test Current I <sub>T</sub> mA	最大动态阻抗 Max Zener Impedance A and B Suffix only			漏流 Leakage Current		浪涌电流 Surge Current I <sub>SM</sub> mA
			Z <sub>0</sub> alt <sup>a</sup> Ohms	Z <sub>0</sub> alt <sup>b</sup> Ohms	I <sub>zk</sub> mA	I <sub>z</sub> µA Max	V <sub>z</sub> Volts	
1N4728A	3.3	76	10	400	1	100	1	1380
1N4729A	3.6	69	10	400	1	100	1	1260
1N4730A	3.9	64	9	400	1	50	1	1190
1N4731A	4.3	58	9	400	1	10	1	1070
1N4732A	4.7	53	8	500	1	10	1	970
1N4733A	5.1	49	7	550	1	10	1	890
1N4734A	5.6	45	5	600	1	10	2	810
1N4735A	6.2	41	2	700	1	10	3	730
1N4736A	6.8	37	3.5	700	1	10	4	660
1N4737A	7.5	37	4	700	0.5	10	5	605
1N4738A	8.2	31	4.5	700	0.5	10	6	550
1N4739A	9.1	28	5	700	0.5	10	7	500
1N4740A	10	25	7	700	0.25	10	7.6	454
1N4741A	11	23	8	700	0.25	5	8.4	414
1N4742A	12	21	9	700	0.25	5	9.1	390
1N4743A	13	19	10	700	0.25	5	9.9	344
1N4744A	15	17	14	700	0.25	5	11.4	304
1N4745A	16	15.5	18	700	0.25	5	12.2	285
1N4746A	18	14	20	750	0.25	5	13.7	250
1N4747A	20	12.5	22	750	0.25	5	16.2	225
1N4748A	22	11.5	23	750	0.25	5	16.7	205
1N4749A	24	10.5	25	750	0.25	5	18.2	180
1N4750A	27	9.5	35	750	0.25	5	20.5	170
1N4751A	30	8.5	40	1000	0.25	5	22.8	150
1N4752A	33	7.5	45	1000	0.25	5	25.1	135
1N4753A	36	7	50	1000	0.25	5	27.4	125
1N4754A	39	6.5	60	1000	0.25	5	29.7	115
1N4755A	43	6	70	1500	0.25	5	32.7	110
1N4756A	47	5.5	80	1500	0.25	5	35.8	95
1N4757A	51	5	95	1500	0.25	5	38.8	90
1N4758A	56	4.5	110	2000	0.25	5	42.6	80
1N4759A	62	4	125	2000	0.25	5	47.1	70
1N4760A	68	3.7	150	2000	0.25	5	51.7	65
1N4761A	75	3.3	175	2000	0.25	5	58	60
1N4762A	82	3	200	3000	0.25	5	62.2	55
1N4763A	91	2.8	250	3000	0.25	5	69.2	50
1N4764A	100	2.5	350	3000	0.25	5	76	45

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