



稳压（齐纳）二极管 Zener Diodes

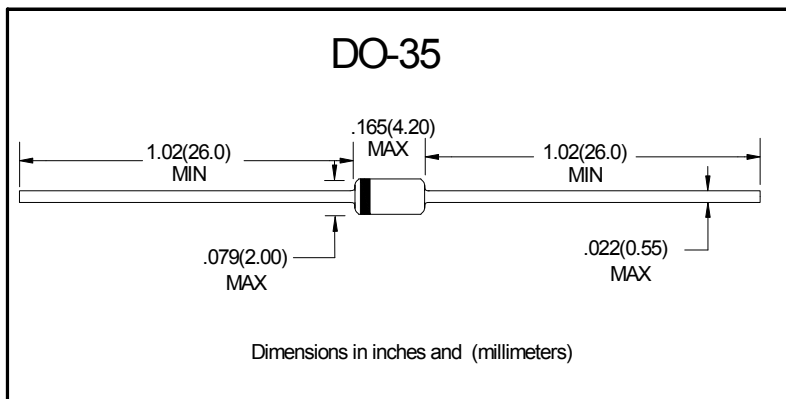
■特征 Features

- P_{tot} 500mW
- V_z 2.4V-68V

■用途 Applications

- 稳定电压用 Stabilizing Voltage

■外形尺寸和印记 Outline Dimensions and Mark



■极限值（绝对最大额定值）

Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	最大值 Max
损耗功率 Power dissipation	P_{tot}	mW	$T_A=25^\circ\text{C}$	500
齐纳电流 Zener current	I_z	mA		P_{tot}/V_z
最大结温 Maximum junction temperature	T_j	$^\circ\text{C}$		175
存储温度范围 Storage temperature range	T_{stg}	$^\circ\text{C}$		-65 to +175

■电特性（ $T_A=25^\circ\text{C}$ 除非另有规定）Electrical Characteristics ($T_A=25^\circ\text{C}$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	最大值 Max
典型热阻(1) Thermal resistance	$R_{\theta JA}$	$^\circ\text{C}/\text{mW}$		0.3
正向电压 Forward voltage	V_F	V	$I_F=200\text{mA}$	1.1

■ 电性参数 ($T_A=25^{\circ}\text{C}$ 除非另有规定)

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

1N5221...1N5266

产品型号 Part Number	额定齐纳电压 Nominal Zener voltage ¹⁾	测试电流 Test current	最大动态阻抗 Maximum dynamic impedance resistance ¹⁾	最大动态阻抗 Maximum dynamic impedance resistance	反向漏电流 Reverse leakage current	
	at I_{ZT} , V_Z	I_{ZT}	Z_{ZT} at I_{ZT}	Z_{ZK} at $I_{ZK}=0.25\text{mA}$	I_R	V_R
	V	mA	Ω	Ω	μA	V
1N5221	2.4	20	30	1200	100	1
1N5222	2.5	20	30	1250	100	1
1N5223	2.7	20	30	1300	75	1
1N5224	2.8	20	30	1400	75	1
1N5225	3	20	29	1600	50	1
1N5226	3.3	20	28	1600	25	1
1N5227	3.6	20	24	1700	15	1
1N5228	3.9	20	23	1900	10	1
1N5229	4.3	20	22	2000	5	1
1N5230	4.7	20	19	1900	5	2
1N5231	5.1	20	17	1600	5	2
1N5232	5.6	20	11	1600	5	3
1N5233	6	20	7	1600	5	3.5
1N5234	6.2	20	7	1000	5	4
1N5235	6.8	20	5	750	3	5
1N5236	7.5	20	6	500	3	6
1N5237	8.2	20	8	500	3	6.5
1N5238	8.7	20	8	600	3	6.5
1N5239	9.1	20	10	600	3	7
1N5240	10	20	17	600	3	8
1N5241	11	20	22	600	2	8.4
1N5242	12	20	30	600	1	9.1
1N5243	13	9.5	13	600	0.5	9.9
1N5244	14	9	15	600	0.1	10
1N5245	15	8.5	16	600	0.1	11
1N5246	16	7.8	17	600	0.1	12
1N5247	17	7.4	19	600	0.1	13
1N5248	18	7	21	600	0.1	14
1N5249	19	6.6	23	600	0.1	14
1N5250	20	6.2	25	600	0.1	15
1N5251	22	5.6	29	600	0.1	17
1N5252	24	5.2	33	600	0.1	18
1N5253	25	5	35	600	0.1	19
1N5254	27	4.6	41	600	0.1	21
1N5255	28	4.5	44	600	0.1	21



■电性参数 (T_A=25℃ 除非另有规定)

Electrical Characteristics (T_A=25℃ unless otherwise noted)

1N5221...1N5266

产品型号 Part Number	额定齐纳电压 Nominal Zener voltage ¹⁾	测试电流 Test current	最大动态阻抗 Maximum dynamic impedance resistance ¹⁾	最大动态阻抗 Maximum dynamic impedance resistance	反向漏电流 Reverse leakage current	
	at I _{ZT} , V _Z	I _{ZT}	Z _{ZT} at I _{ZT}	Z _{ZK} at I _{ZK} =0.25mA	I _R	V _R
	V	mA	Ω	Ω	μA	V
1N5256	30	4.2	49	600	0.1	23
1N5257	33	3.8	58	700	0.1	25
1N5258	36	3.4	70	700	0.1	27
1N5259	39	3.2	80	800	0.1	30
1N5260	43	3	93	900	0.1	33
1N5261	47	2.7	105	1000	0.1	36
1N5262	51	2.5	125	1100	0.1	39
1N5263	56	2.2	150	1300	0.1	43
1N5264	60	2.1	170	1400	0.1	46
1N5265	62	2	185	1400	0.1	47
1N5266	68	1.8	230	1600	0.1	52

备注: Notes:

¹⁾ 基于直流测试下的热平衡; 引线长度=9.5 (3/8"); 散热器的热阻为 30℃/W

Based on dc-measurement at thermal equilibrium; lead length = 9.5 (3/8 "); thermal resistance of heat sink = 30 °C/W

2) STANDARD VOLTAGE TOLERANCE IS +5% AND

SUFFIX "A" FOR +3%

SUFFIX "B" FOR +5%

SUFFIX "C" FOR +10%

SUFFIX "D" FOR +20%

■特性曲线（典型） Characteristics(Typical)

Fig:1 Power Derating Curve

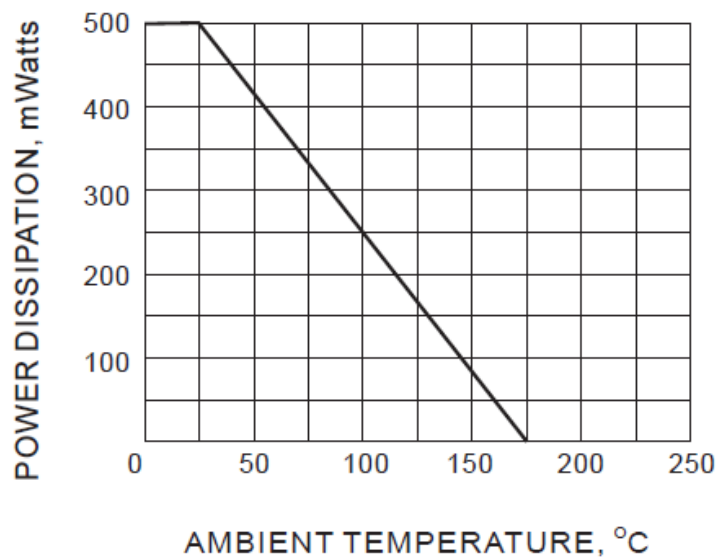


Fig.2 Breakdown Characteristics

