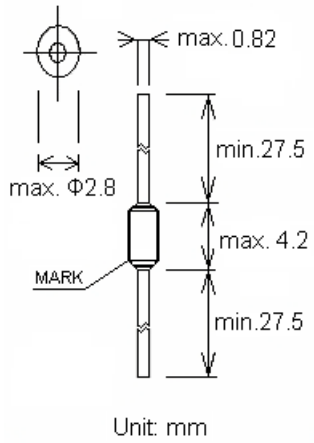
DO-41 Glass



Unit: mm

DO-41 玻封稳压二极管
DO-41 Glass Zener Diode

特征 Features

- 反向漏电小; Low Reverse Leakage
- 齐纳击穿阻抗低; Low Zener Impedance
- 最大功率耗散 1000mW; Power Dissipation of 1000mW
- 高稳定性和可靠性。High Stability and High Reliability

机械数据 Mechanical Data

- 封装: DO-41 玻璃封装 Case: DO-41 Glass Case
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
功率消耗 Power Dissipation	Pd	1000 [1)]	mW
Maximum Forward Voltage at IF = 200 mA	VF	1.2	V
工作结温 Operating junction temperature	Tj	200	℃
存储温度 Storage temperature range	Ts	-55-+200	℃

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

电特性 (TA = 25℃ 除非另有规定)

Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

型号 TYPE	稳压值 Zener Voltage		反向电流 Reverse Carrent		动态电阻 Dynamic Resistance	
	Vz(V)	Test Condition	Ir(uA)	Test Condition	rd(Ω)	Test Condition
	Nom.	Iz(mA)	Max.	Vr(V)	Max.	Iz(mA)
1N4728A	3.3	76.0	100	1.0	10	76.0
1N4729A	3.6	69.0	100	1.0	10	69.0
1N4730A	3.9	64.0	50	1.0	9	64.0
1N4731A	4.3	58.0	10	1.0	9	58.0
1N4732A	4.7	53.0	10	1.0	8	53.0
1N4733A	5.1	49.0	10	1.0	7	49.0
1N4734A	5.6	45.0	10	2.0	5	45.0
1N4735A	6.2	41.0	10	3.0	2	41.0
1N4736A	6.8	37.0	10	4.0	3.5	37.0
1N4737A	7.5	34.0	10	5.0	4	34.0
1N4738A	8.2	31.0	10	6.0	4.5	31.0
1N4739A	9.1	28.0	10	7.0	5	28.0
1N4740A	10	25.0	10	7.6	7	25.0
1N4741A	11	23.0	5	8.4	8	23.0
1N4742A	12	21.0	5	9.1	9	21.0
1N4743A	13	19.0	5	9.9	10	19.0

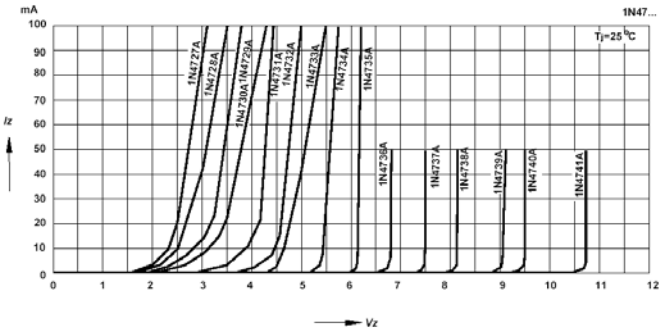
1N4744A	15	17.0	5	11.4	14	17.0

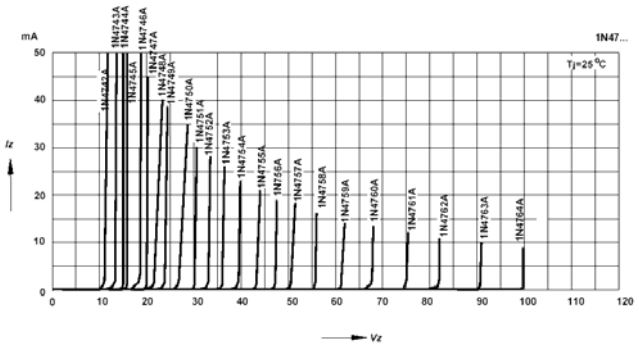
型号 TYPE*	稳压值 Zener Voltage		反向电流 Reverse Carrent		动态电阻 Dynamic Resistance	
	Vz(V)	Test Condition	Ir(uA)	Test Condition	rd(Ω)	Test Condition
	Nom.	Iz(mA)	Max.	Vr(V)	Max.	Iz(mA)
1N4745A	16	15.5	5	12.2	16	15.5
1N4746A	18	14.0	5	13.7	20	14.0
1N4747A	20	12.5	5	15.2	22	12.5
1N4748A	22	11.5	5	16.7	23	11.5
1N4749A	24	10.5	5	18.2	25	10.5
1N4750A	27	9.5	5	20.6	35	9.5
1N4751A	30	8.5	5	22.8	40	8.5
1N4752A	33	7.5	5	25.1	45	7.5
1N4753A	36	7.0	5	27.4	50	7.0
1N4754A	39	6.5	5	29.7	60	6.5
1N4755A	43	6.0	5	32.7	70	6.0
1N4756A	47	5.5	5	35.8	80	5.5
1N4757A	51	5.0	5	38.8	95	5.0
1N4758A	56	4.5	5	42.6	110	4.5
1N4759A	62	4.0	5	47.1	125	4.0
1N4760A	68	3.7	5	51.7	150	3.7
1N4761A	75	3.3	5	56.0	175	3.3
1N4762A	82	3.0	5	62.2	200	3.0
1N4763A	91	2.8	5	69.2	250	2.8
1N4764A	100	2.5	5	76.0	350	2.5

Notes:

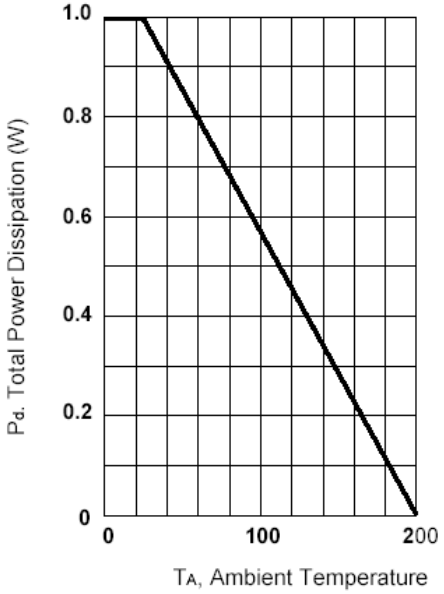
1) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.
2) Measured under thermal equilibrium and DC test conditions.
3) The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equiv-alent sine wave pulse of 1/120 second duration superimposed on the test current, IZT ,per JEDEC registration; however, actual device capability is as described in Fiure 5 of the General Data-DO-41 Glass.
4) Tested with pulses tp = 20 ms.
5) VF(Max)=1.20V@ IF=200mA
*Measure under thermal equilibrium and DC current test conditions(TA=25℃)
Tolerance on nominal Vz value: ±5%.
Tight tolerances on preferred voltages: 1N47…C: ±2%;
1N47…D: ±1%.

Breakdown characteristics Tj = constant (pulsed)

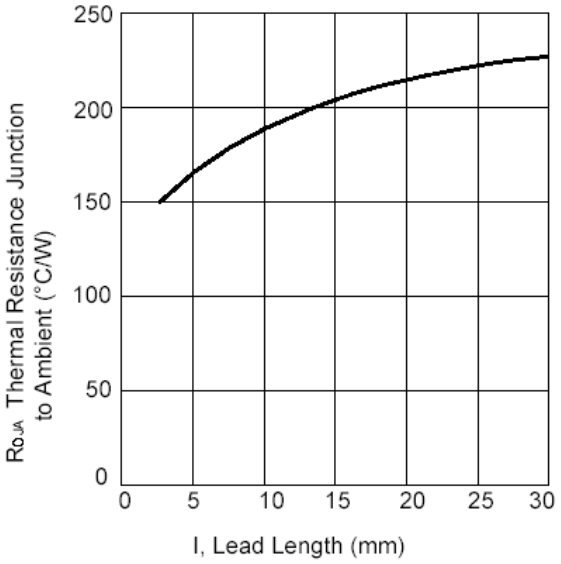




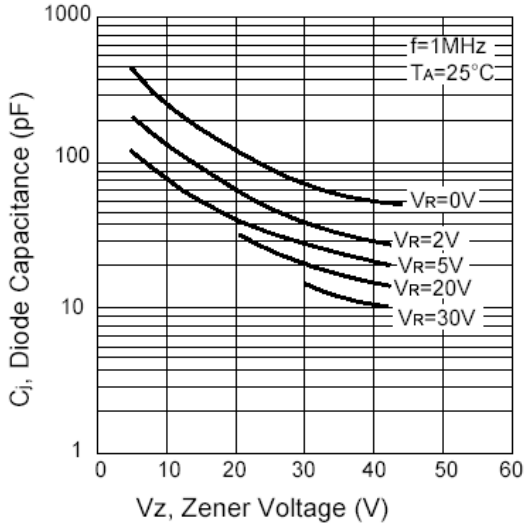
Power Dissipation vs Ambient Temperature



Typical Thermal Resistance vs. Lead Length



Junction Capacitance vs Zener Voltage



Typical Zener Impedance vs. Zener Voltage