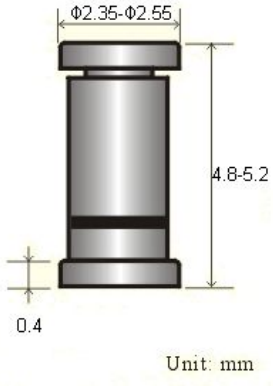
LL-41GLASS



LL-41(Melf) 玻封稳压二极管
LL-41 (Melf)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: LL-41 玻璃封装 Case: LL-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
工作结温 Operating junction temperature	Tj	175	℃
存储温度 Storage temperature range	Ts	-65-+150	℃

1) Valid provided that electrodes are kept at ambient temperature.

电特性 (TA = 25℃ 除非另有规定)

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

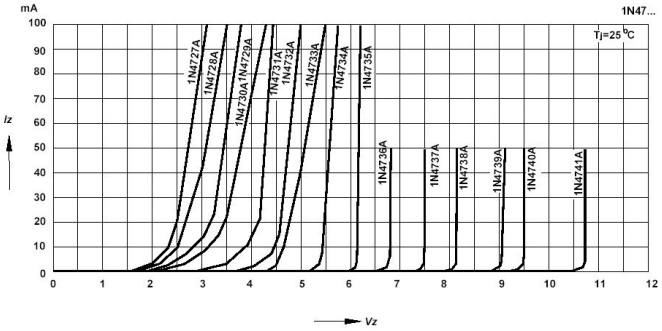
型号 TYPE	稳压值 Zener Voltage		反向电流 Reverse Carrent		动态电阻 Dynamic Resistance	
	Vz(V)	Test Condition	Ir(uA)	Test Condition	rd(Ω)	Test Condition
	Nom.	Iz(mA)	Max.	Vr(V)	Max.	Iz(mA)
ZM4728A	3.3	76.0	100	1.0	10	76.0
ZM 4729A	3.6	69.0	100	1.0	10	69.0
ZM 4730A	3.9	64.0	50	1.0	9	64.0
ZM 4731A	4.3	58.0	10	1.0	9	58.0
ZM 4732A	4.7	53.0	10	1.0	8	53.0
ZM 4733A	5.1	49.0	10	1.0	7	49.0
ZM 4734A	5.6	45.0	10	2.0	5	45.0
ZM 4735A	6.2	41.0	10	3.0	2	41.0
ZM 4736A	6.8	37.0	10	4.0	3.5	37.0
ZM 4737A	7.5	34.0	10	5.0	4	34.0
ZM 4738A	8.2	31.0	10	6.0	4.5	31.0
ZM 4739A	9.1	28.0	10	7.0	5	28.0
ZM 4740A	10	25.0	10	7.6	7	25.0
ZM 4741A	11	23.0	5	8.4	8	23.0
ZM 4742A	12	21.0	5	9.1	9	21.0
ZM 4743A	13	19.0	5	9.9	10	19.0
ZM 4744A	15	17.0	5	11.4	14	17.0

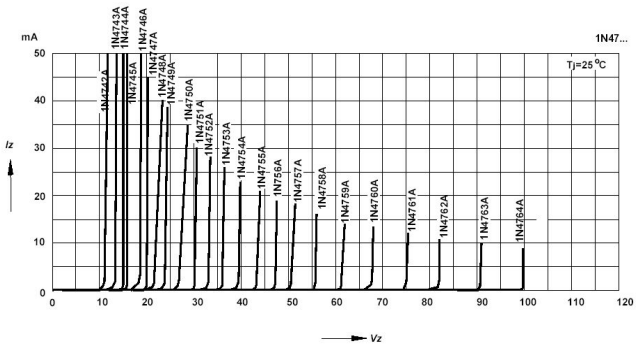
型号 TYPE*	稳压值 Zener Voltage		反向电流 Reverse Carrent		动态电阻 Dynamic Resistance	
	Vz(V)	Test Condition	Ir(uA)	Test Condition	rd(Ω)	Test Condition
	Nom.	Iz(mA)	Max.	Vr(V)	Max.	Iz(mA)
ZM 4745A	16	15.5	5	12.2	16	15.5
ZM 4746A	18	14.0	5	13.7	20	14.0
ZM 4747A	20	12.5	5	15.2	22	12.5
ZM 4748A	22	11.5	5	16.7	23	11.5
ZM 4749A	24	10.5	5	18.2	25	10.5
ZM 4750A	27	9.5	5	20.6	35	9.5
ZM 4751A	30	8.5	5	22.8	40	8.5
ZM 4752A	33	7.5	5	25.1	45	7.5
ZM 4753A	36	7.0	5	27.4	50	7.0
ZM 4754A	39	6.5	5	29.7	60	6.5
ZM 4755A	43	6.0	5	32.7	70	6.0
ZM 4756A	47	5.5	5	35.8	80	5.5
ZM 4757A	51	5.0	5	38.8	95	5.0
ZM 4758A	56	4.5	5	42.6	110	4.5
ZM 4759A	62	4.0	5	47.1	125	4.0
ZM 4760A	68	3.7	5	51.7	150	3.7
ZM 4761A	75	3.3	5	56.0	175	3.3
ZM 4762A	82	3.0	5	62.2	200	3.0
ZM 4763A	91	2.8	5	69.2	250	2.8
ZM 4764A	100	2.5	5	76.0	350	2.5

Notes:

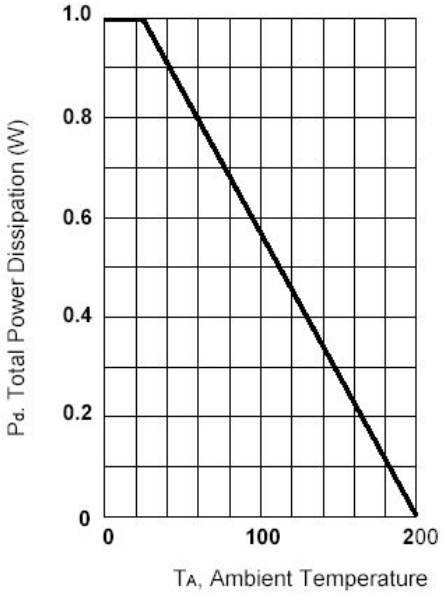
1) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.
2) Measured under thermal equilibrium and DC test conditions.
3) The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equiv-alent 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: ZM47…C: ±2%;
ZM47…D: ±1%.
These diodes are also available in DO-41 case with the type designation 1N4728...1N4764

Breakdown characteristics Tj = constant (pulsed)

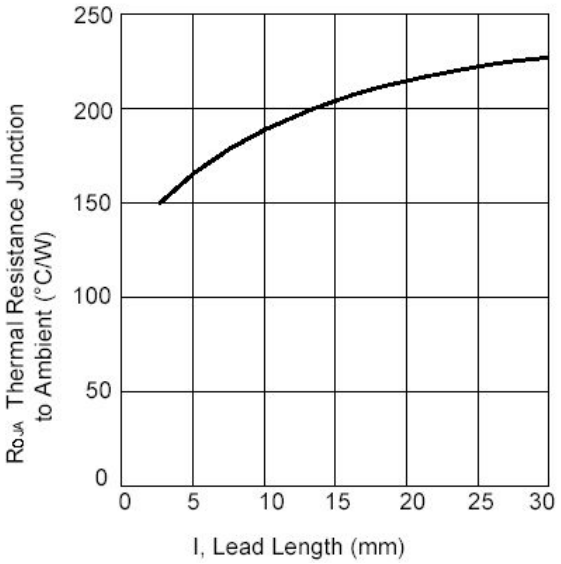




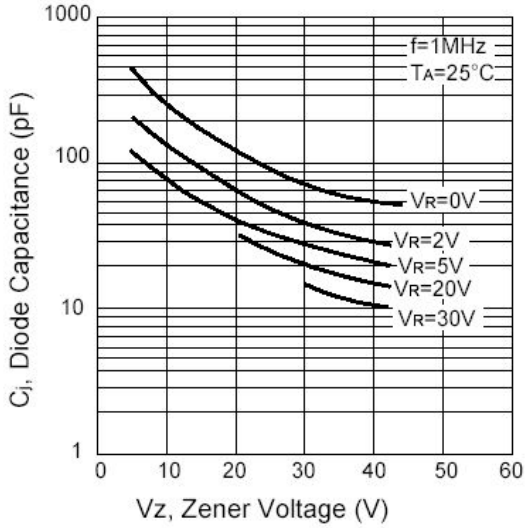
Power Dissipation vs Ambient Temperature



Typical Thermal Resistance vs. Lead Length



Junction Capacitance vs Zener Voltage



Typical Zener Impedance vs. Zener Voltage