

**特性/机械性能:**
**FEATURES/MECHANICAL DATE**

- ◆ 小电流下的齐纳阻抗低 Zener shed little electric impedance is low
- ◆ 高可靠性 High reliability
- ◆ 耐焊接热: 250°C/10S, 引出端0.375" (9.5mm) 处。

Welding heat resistance: 250 °C / 10S, terminal 0.375 "(9.5 mm).

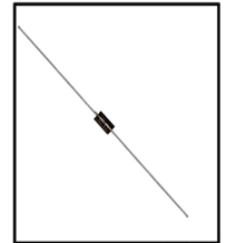
- ◆ 封装: 模塑封装 Case: Molded plastic

- ◆ 引线: 电镀可焊性符合MIL-STD-202E, 方法208C

Lead: Axial lead solderable per MIL-STD-202, method 208 guaranteed

- ◆ 极性: 色环表示阴极 Polarity: Color band denotes cathode

- ◆ 安装位置: 任意 Mounting position: Any



DO-41 (G)

**最大额定值及电气特性:**
**MAXIMUM RATINGS AND CHARACTERISTICS**

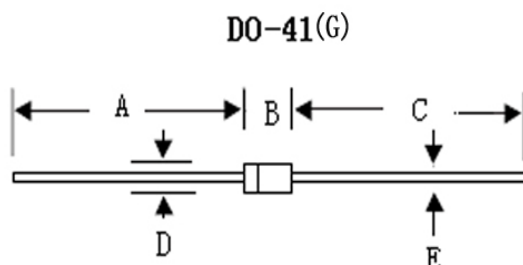
测量环境温度为25°C, 除非另有规定。

Rating at 25°C ambient temperature unless otherwise specified.

参数名称 Papt Number	符号Symbol	数值Value	单位Unit
齐纳电流 The zener current	I <sub>Z</sub> MAX	见表See table	mA
耗散功率@Ta=75°C Power Dissipation@Ta=75°C	P <sub>t</sub>	1.0	W
正向电压@IF=200mA Forward voltage@IF=200mA	V <sub>F</sub>	1.5	V
热阻抗 Thermal impedance	R <sub>θ</sub> (ja)	32	°C/W
使用及储存温度范围 Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~+200	°C

注 释: 距离管体9.5mm引线处的温度, 设定为环境温度。

Notes: The distance between the pipe body. The temperature of the 9.5 mm wire, set to ambient temperature.

**产品外形尺寸:**
**PRODUCT APPEARANCE SIZE**


DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.0		25.4	
B	0.161	0.205	4.1	5.2
C	1.0		25.4	
D	0.080	0.107	2.0	2.7
E	0.028	0.034	0.7	0.9

**电特性:**
**ELECTRICAL CHARACTERISTICS**

型号 TYPE	齐纳电压 Zener voltage		最大齐纳阻抗 Maximum dynamic resistance			最大反向漏电流 Maximum Leakage Current @VR		最大直流齐纳电流 The largest dc zener current
	V Z@IZT	IZT	Z ZT @IZT	Z ZK @IZK	I ZK	IR@VR	VR	ZM @50°C
	V	mA	Ω	Ω	mA	μA	V	mA
1N4727	3.3	83	10	400	1.0	100	1	275
1N4728	3.3	76	10	400	1.0	150	1	275
1N4729	3.6	69	10	400	1.0	100	1	252
1N4730	3.9	64	9	400	1.0	50	1	234
1N4731	4.3	58	9	400	1.0	10	1	217
1N4732	4.7	53	8	500	1.0	10	1	193
1N4733	5.1	49	7	550	1.0	10	1	178
1N4734	5.6	45	5	600	1.0	10	2	162
1N4735	6.2	41	2	700	1.0	10	3	146
1N4736	6.8	37	3.5	700	1.0	10	4	133
1N4737	7.5	31	4.0	700	0.5	10	5	121
1N4738	8.2	31	4.5	700	0.5	10	6	110
1N4739	9.1	28	5.0	700	0.25	10	7	100
1N4740	10	25	7	700	0.25	10	7.6	91
1N4741	11	23	8	700	0.25	5	8.4	83
1N4742	12	21	9	700	0.25	5	9.1	76
1N4743	13	19	10	700	0.25	5	9.9	69
1N4744	15	17	14	700	0.25	5	11.4	61
1N4745	16	15.5	16	700	0.25	5	12.2	57
1N4746	18	14	20	750	0.25	5	13.7	50
1N4747	20	12.5	22	750	0.25	5	15.2	45
1N4748	22	11.5	23	750	0.25	5	16.7	41
1N4749	24	10.5	25	750	0.25	5	18.2	38
1N4750	27	9.5	35	750	0.25	5	20.6	34
1N4751	30	8.5	40	1000	0.25	5	22.8	30
1N4752	33	7.5	45	1000	0.25	5	25.1	27
1N4753	36	7.0	50	1000	0.25	5	27.4	25
1N4754	39	6.5	60	1000	0.25	5	29.7	23
1N4755	43	6.0	70	1500	0.25	5	32.7	22
1N4756	47	5.5	80	1500	0.25	5	35.8	19
1N4757	51	5.0	95	1500	0.25	5	38.8	18
1N4758	56	4.5	110	2000	0.25	5	42.6	16
1N4759	62	4.0	125	2000	0.25	5	47.1	14
1N4760	68	3.7	150	2000	0.25	5	51.7	13
1N4761	75	3.3	175	2000	0.25	5	56.0	12
1N4762	82	3.0	200	3000	0.25	5	62.2	11
1N4763	91	2.8	250	3000	0.25	5	69.2	10
1N4764	100	2.5	350	3000	0.25	5	76.0	9

**注释:Notes:**

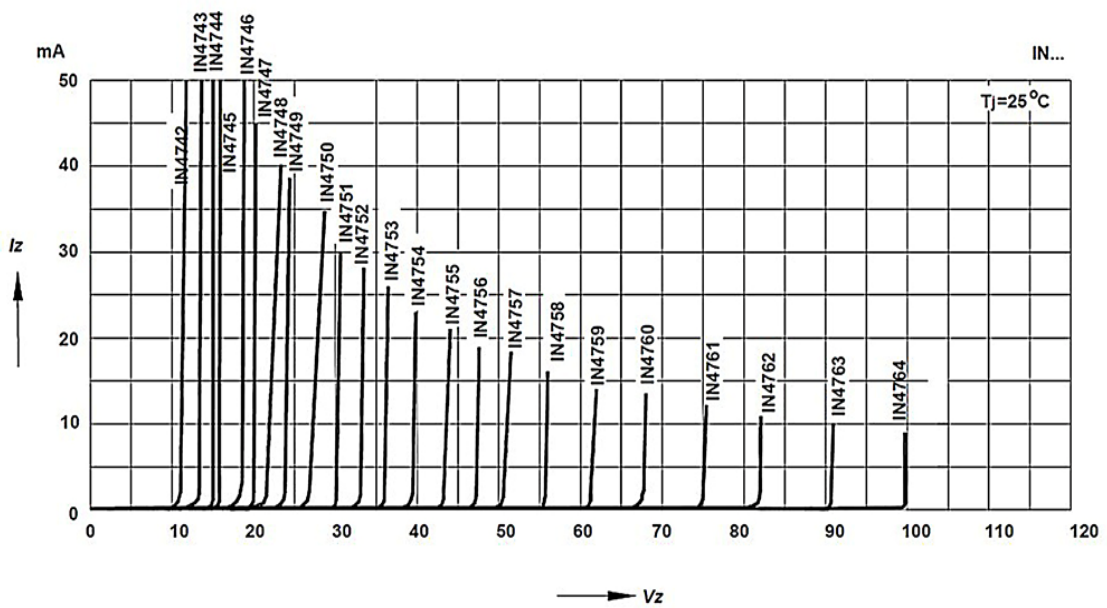
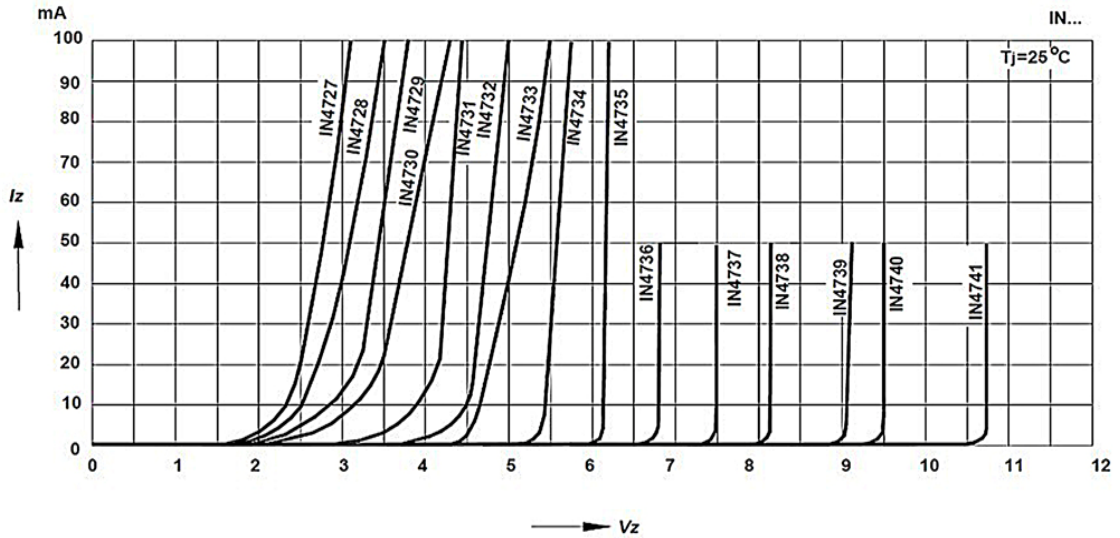
- 标准型的齐纳电压值偏差为10%；附加标“A”的特选型，其偏差为5%。  
The zener voltage value of the standard deviation is 10%; Additional standard "A", type selection, the deviation of 5%.
- 表面贴装型将“1N”改为“ZMM”，外形为LL-41。 Surface-mount type "1N" to "ZMM", appearance for LL - 41.
- 对于齐纳阻抗， $I(ac\ rms) = 10\% I_{zt}$  The zener impedance,  $I_{zt}(ac\ RMS) = 10\%$
- 对于齐纳拐点阻抗， $I(ac\ rms) = 10\% I_{zk}$  The zener inflection point impedance,  $I_{zk}(ac\ RMS) = 10\%$
- 这里的最大齐纳电流值并非是绝对的，在实际稳态应用中，应保证电压和电流的乘积不超过额定功率值。  
Here is one of the most DaJi, current value is not absolute, in the practical application of the steady state, shall ensure that the product of the voltage and current shall not exceed the rated power value.

**特性曲线图:**

**RATINGS AND CHARACTERISTIC CURVES**

**Breakdown characteristics**

$T_j = \text{constant (pulsed)}$



特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

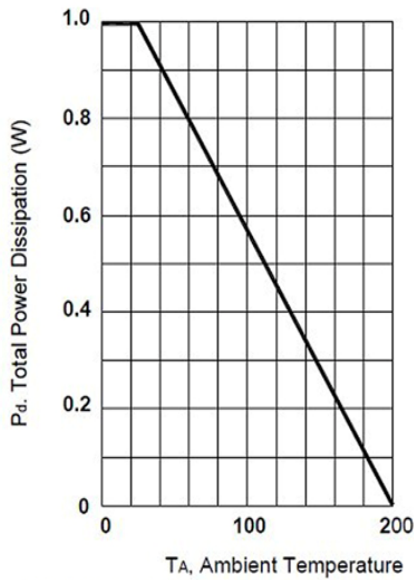


Fig. 1 Power Dissipation vs Ambient Temperature

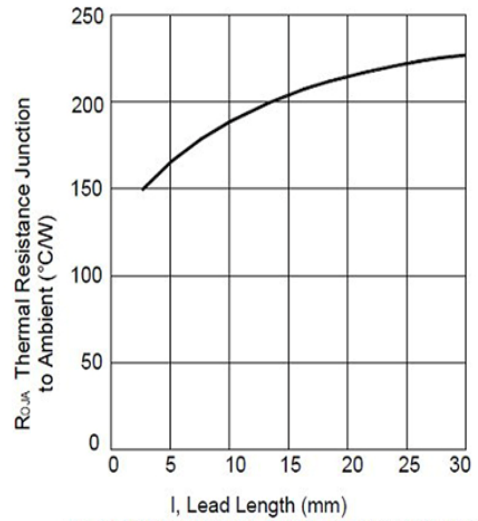


Fig. 2 Typical Thermal Resistance vs. Lead Length

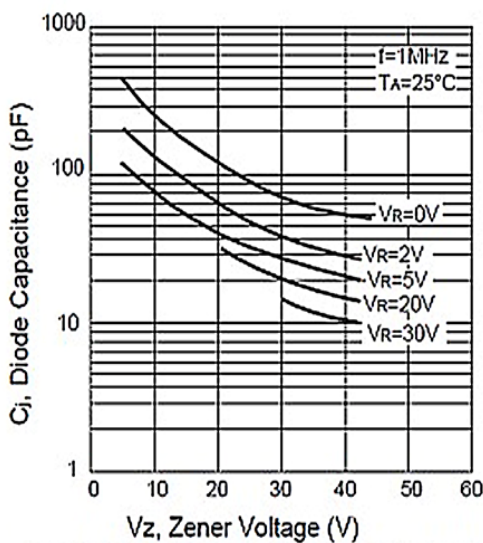


Fig. 3 Junction Capacitance vs Zener Voltage

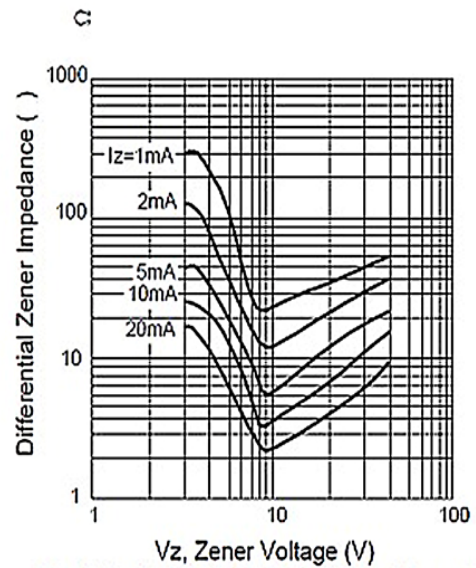


Fig. 4 Typical Zener Impedance vs. Zener Voltage