



稳压（齐纳）二极管 Zener Diodes

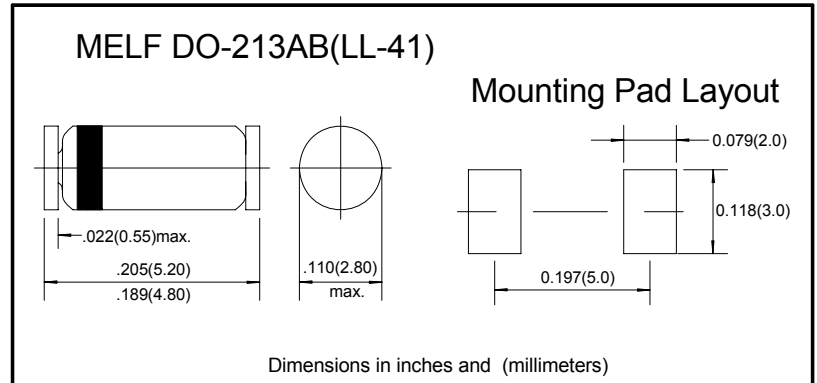
■特征 Features

- P_{tot} 1.0W
- V_z 3.3V-100V

■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}	W	$L=4\text{mm}, T_L=25^\circ\text{C}$	1.0 ¹⁾
齐纳电流 Zener current	I_z	mA		P_V / 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	$R_{\theta JA}$	$^\circ\text{C}/\text{W}$	结到环境, $L=4\text{mm}$, $T_L=\text{常温}$ junction to ambient air, $L=4\text{mm}, T_L=\text{constant}$	170

备注: Notes:

¹⁾有效提供, 电极保持在环境温度

Valid provided that electrodes are kept at ambient temperature.

■ 电性参数 (T_A=25℃ 除非另有规定)

Electrical Characteristics (T_A=25℃ unless otherwise noted)

产品型号 Part Number	额定齐纳电压 Nominal Zener voltage ¹⁾	测试电流 Test current	最大动态电阻 Maximum dynamic impedance			最大反向漏电流 Maximum reverse leakage current		浪涌电流 Surge current ³⁾	最大调整电流 Maximum regulator current ²⁾
	V _Z at I _{ZT}	I _{ZT}	Z _{VT} at I _{ZT}	Z _{ZK} at I _{ZK}	I _{ZK}	I _R	Test voltage V _R	at T _A =25℃ I _R	I _{ZM}
	V	mA	Ω	Ω	mA	μA	V	mA	mA
DL4728A	3.3	76	10	400	1	100	1	1380	276
DL4729A	3.6	69	10	400	1	100	1	1260	252
DL4730A	3.9	64	9	400	1	50	1	1190	234
DL4731A	4.3	58	9	400	1	10	1	1070	217
DL4732A	4.7	53	8	500	1	10	1	970	193
DL4733A	5.1	49	7	550	1	10	1	890	178
DL4734A	5.6	45	5	600	1	10	2	810	162
DL4735A	6.2	41	2	700	1	10	3	730	146
DL4736A	6.8	37	3.5	700	1	10	4	660	133
DL4737A	7.5	34	4	700	0.5	10	5	605	121
DL4738A	8.2	31	4.5	700	0.5	10	6	550	110
DL4739A	9.1	28	5	700	0.5	10	7	500	100
DL4740A	10	25	7	700	0.25	10	7.6	454	91
DL4741A	11	23	8	700	0.25	5	8.4	414	83
DL4742A	12	21	9	700	0.25	5	9.1	380	76
DL4743A	13	19	10	700	0.25	5	9.9	344	69
DL4744A	15	17	14	700	0.25	5	11.4	304	61
DL4745A	16	15.5	16	700	0.25	5	12.2	285	57
DL4746A	18	14	20	750	0.25	5	13.7	250	50
DL4747A	20	12.5	22	750	0.25	5	15.2	225	45
DL4748A	22	11.5	23	750	0.25	5	16.7	205	41
DL4749A	24	10.5	25	750	0.25	5	18.2	190	38
DL4750A	27	9.5	35	750	0.25	5	20.6	170	34
DL4751A	30	8.5	40	1000	0.25	5	22.8	150	30
DL4752A	33	7.5	45	1000	0.25	5	25.1	135	27
DL4753A	36	7	50	1000	0.25	5	27.4	125	25
DL4754A	39	6.5	60	1000	0.25	5	29.7	115	23
DL4755A	43	6	70	1500	0.25	5	32.7	110	22
DL4756A	47	5.5	80	1500	0.25	5	35.8	95	19
DL4757A	51	5	95	1500	0.25	5	38.8	90	18
DL4758A	56	4.5	110	2000	0.25	5	42.6	80	16
DL4759A	62	4	125	2000	0.25	5	47.1	70	14
DL4760A	68	3.7	150	2000	0.25	5	51.7	65	13
DL4761A	75	3.3	175	2000	0.25	5	56	60	12
DL4762A	82	3	200	3000	0.25	5	62.2	55	11
DL4763A	91	2.8	250	3000	0.25	5	69.2	50	10
DL4764A	100	2.5	350	3000	0.25	5	76	45	9

备注: Notes:

¹⁾ 齐纳阻抗是在1KHz交流电压下, 当交流电流其有效值等于10%的齐纳电流(I_{ZT}或I_{ZK})是叠加在I_{ZT}或I_{ZK}。齐纳阻抗测量两点保证拐点的击穿曲线和消除不稳定的单位

The zener impedance is derived from the 1 kHz AC voltage which results when an AC current having an RMS value equal to 10 % of the zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK}. Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units

²⁾ 有效提供, 电极保持在环境温度 Valid provided that electrodes are kept at ambient temperature

³⁾ 测量在热平衡和直流试验条件 Measured under thermal equilibrium and DC test conditions



■特性曲线（典型） Characteristics(Typical)

图1：可接受功率损耗与环境温度关系

FIG1: Admissible Power Dissipation vs. Ambient Temperat

