

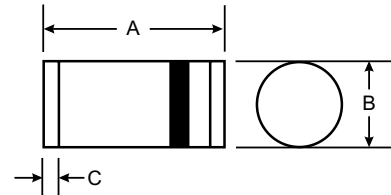
**VOLTAGE RANGE: 3.3 - 100V**  
**POWER: 1.0Watts**

### Features

- Silicon planar power zener diodes
- For use in stabilizing and clipping circuits with higher power rating.
- Standard zener voltage tolerance is  $\pm 5\%$ .
- Other zener voltages and tolerances are available upon request.

### Mechanical Data

- Case : DO-213AB, Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.25 g



LL41/ DO-213AB		
Dim	Min	Max
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
All Dimensions in mm		

### Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50^\circ\text{C}$ (Note1)	$P_D$	1.0	Watt
Maximum Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R_{\theta JA}$	170	K / W
Junction Temperature Range	$T_J$	- 55 to + 175	$^\circ\text{C}$
Storage Temperature Range	$T_S$	- 55 to + 175	$^\circ\text{C}$

**Note :**

- (1)  $T_L$  = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



## ELECTRICAL CHARACTERISTICS (Ta = 25 °C unless otherwise noted)

Type	Nominal Zener Voltage		Maximum Zener Impedance <sup>(1)</sup>			Maximum Reverse Leakage Current		Maximum DC Zener Current
	Vz @ IZT	IZT	ZzT @ IZT	ZzK @ IZK	IzK	IR @ VR		IzM <sup>(2)</sup>
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
ZM4728A	3.3	76.0	10	400	1.0	100	1.0	276
ZM4729A	3.6	69.0	10	400	1.0	100	1.0	252
ZM4730A	3.9	64.0	9.0	400	1.0	50	1.0	234
ZM4731A	4.3	58.0	9.0	400	1.0	10	1.0	217
ZM4732A	4.7	53.0	8.0	500	1.0	10	1.0	193
ZM4733A	5.1	49.0	7.0	550	1.0	10	1.0	178
ZM4734A	5.6	45.0	5.0	600	1.0	10	2.0	162
ZM4735A	6.2	41.0	2.0	700	1.0	10	3.0	146
ZM4736A	6.8	37.0	3.5	700	1.0	10	4.0	133
ZM4737A	7.5	34.0	4.0	700	0.5	10	5.0	121
ZM4738A	8.2	31.0	4.5	700	0.5	10	6.0	110
ZM4739A	9.1	28.0	5.0	700	0.5	10	7.0	100
ZM4740A	10	25.0	7.0	700	0.25	10	7.6	91
ZM4741A	11	23.0	8.0	700	0.25	5.0	8.4	83
ZM4742A	12	21.0	9.0	700	0.25	5.0	9.1	76
ZM4743A	13	19.0	10	700	0.25	5.0	9.9	69
ZM4744A	15	17.0	14	700	0.25	5.0	11.4	61
ZM4745A	16	15.5	16	700	0.25	5.0	12.2	57
ZM4746A	18	14.0	20	750	0.25	5.0	13.7	50
ZM4747A	20	12.5	22	750	0.25	5.0	15.2	45
ZM4748A	22	11.5	23	750	0.25	5.0	16.7	41
ZM4749A	24	10.5	25	750	0.25	5.0	18.2	38
ZM4750A	27	9.5	35	750	0.25	5.0	20.6	34
ZM4751A	30	8.5	40	1000	0.25	5.0	22.8	30
ZM4752A	33	7.5	45	1000	0.25	5.0	25.1	27
ZM4753A	36	7.0	50	1000	0.25	5.0	27.4	25
ZM4754A	39	6.5	60	1000	0.25	5.0	29.7	23
ZM4755A	43	6.0	70	1500	0.25	5.0	32.7	22
ZM4756A	47	5.5	80	1500	0.25	5.0	35.8	19
ZM4757A	51	5.0	95	1500	0.25	5.0	38.8	18
ZM4758A	56	4.5	110	2000	0.25	5.0	42.6	16
ZM4759A	62	4.0	125	2000	0.25	5.0	47.1	14
ZM4760A	68	3.7	150	2000	0.25	5.0	51.7	13
ZM4761A	75	3.3	175	2000	0.25	5.0	56.0	12
ZM4762A	82	3.0	200	3000	0.25	5.0	62.2	11
ZM4763A	91	2.8	250	3000	0.25	5.0	69.2	10
ZM4764A	100	2.5	350	3000	0.25	5.0	76.0	9.0

**Notes:** (1) The Zener impedance is derived from the 1KHz 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) Valid provided that electrodes at a distance of 10mm from case are kept at ambient temperature

(3) The type number listed have a standard tolerance on the nominal zener voltage of  $\pm 5\%$ .