



DL4728A THRU DL4764A

Surface Mount Zener Diodes

Voltage 3.3 to 100 volts Power 1.0 Watts

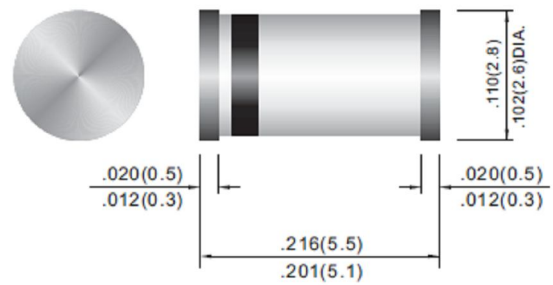
Features

- Low profile package
- Built-in strain relief
- Low inductance
- In compliance with EU RoHS 2002/95/EC directives

Mechanical Data

- Case: Molded glass MELF/DL-41
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See diagram below
- Mounting position: Any
- Approx. Weight: 0.16 gram

MELF/DL-41



Unit: inch(mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation at 25 °C	P_{TOT}	1*	W
Operating Junction and Storage Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-65 to +200	°C

Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

Parameter	Symbol	Min.	Typ.	Max.	Units
Thermal Resistance Junction to Ambient Air	R_{JA}	--	—	170*	K/W
Forward Voltage at $I = 200mA$	V_F	--	—	1.2	V

Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature.

Part Number	Maximum Zener Voltage			Maximum Zener Impedance				Maximum Leakage Current	
	V _Z @ I _{ZT}			Z _{zT} @ I _{ZT}		Z _{zK} @ I _{zK}		I _R @ V _R	
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	uA	V
1.0 watt Zener Diodes (Glass Sealed Envelope)									
DL4728A	3.3	3.1	3.5	10.0	76.0	400	1.00	100	1.0
DL4729A	3.6	3.4	3.8	10.0	69.0	400	1.00	100	1.0
DL4730A	3.9	3.7	4.1	9.0	64.0	400	1.00	50	1.0
DL4731A	4.3	4.1	4.5	9.0	58.0	400	1.00	10	1.0
DL4732A	4.7	4.5	4.9	8.0	53.0	500	1.00	10	1.0
DL4733A	5.1	4.8	5.4	7.0	49.0	550	1.00	10	1.0
DL4734A	5.6	5.3	5.9	5.0	45.0	600	1.00	10	2.0
DL4735A	6.2	5.9	6.5	2.0	41.0	700	1.00	10	3.0
DL4736A	6.8	6.5	7.1	3.5	37.0	700	1.00	10	4.0
DL4737A	7.5	7.1	7.9	4.0	34.0	700	0.50	10	5.0
DL4738A	8.2	7.8	8.6	4.5	31.0	700	0.50	10	6.0
DL4739A	9.1	8.6	9.6	5.0	28.0	700	0.50	10	7.0
DL4740A	10.0	9.5	10.5	7.0	25.0	700	0.25	10	7.6
DL4741A	11.0	10.5	11.6	8.0	23.0	700	0.25	5	8.4
DL4742A	12.0	11.4	12.6	9.0	21.0	700	0.25	5	9.1
DL4743A	13.0	12.4	13.7	10.0	19.0	700	0.25	5	9.9
DL4744A	15.0	14.3	15.8	14.0	17.0	700	0.25	5	11.4
DL4745A	16.0	15.2	16.8	16.0	15.5	700	0.25	5	12.2
DL4746A	18.0	17.1	18.9	20.0	14.0	750	0.25	5	13.7
DL4747A	20.0	19.0	21.0	22.0	12.5	750	0.25	5	15.2
DL4748A	22.0	20.9	23.1	23.0	11.5	750	0.25	5	16.7
DL4749A	24.0	22.8	25.2	25.0	10.5	750	0.25	5	18.2
DL4750A	27.0	25.7	28.4	35.0	9.5	750	0.25	5	20.6
DL4751A	30.0	28.5	31.5	40.0	8.5	1000	0.25	5	22.8
DL4752A	33.0	31.4	34.7	45.0	7.5	1000	0.25	5	25.1
DL4753A	36.0	34.2	37.8	50.0	7.0	1000	0.25	5	27.4
DL4754A	39.0	37.1	41.0	60.0	6.5	1000	0.25	5	29.7
DL4755A	43.0	40.85	45.15	70.0	6.0	1500	0.25	0.1	32.7
DL4756A	47.0	44.65	49.35	80.0	5.5	1500	0.25	0.1	35.8
DL4757A	51.0	48.45	53.55	95.0	5.0	1500	0.25	0.1	38.8
DL4758A	56.0	53.2	58.8	110.0	4.5	2000	0.25	0.1	42.6
DL4759A	62.0	58.9	65.1	125.0	4.0	2000	0.25	0.1	47.1
DL4760A	68.0	64.6	71.4	150.0	3.7	2000	0.25	0.1	51.7
DL4761A	75.0	71.25	78.75	175.0	3.3	2000	0.25	0.1	56.0
DL4762A	82.0	77.9	86.1	200.0	3.0	3000	0.25	0.1	62.2
DL4763A	91.0	86.45	95.55	250.0	2.8	3000	0.25	0.1	69.2
DL4764A	100.0	95.0	105.0	350.0	2.5	3000	0.25	0.1	76.0

RATING AND CHARACTERISTIC CURVES

Fig1. Forward Derating Curve

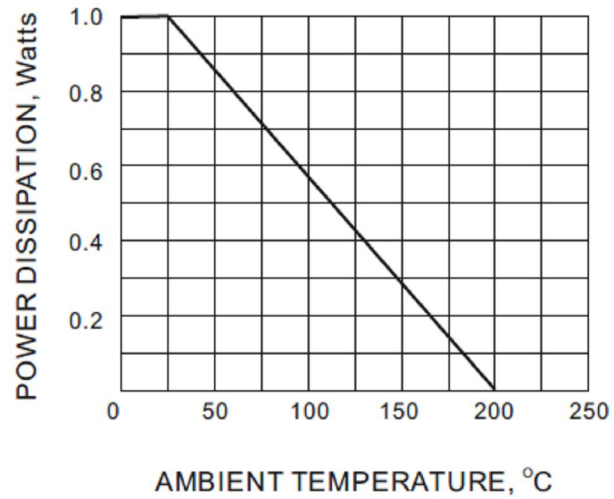


Fig2. Breakdown Characteristics

