Elektronische Bauelemente

DL47xxA Series

1W , MELF

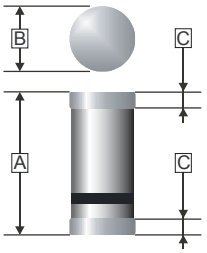
Surface Mount Zener Diodes

RoHS Compliant Product
A suffix of “-C” specifies halogen & lead-free

FEATURES

- Zener Voltage Range 3.3 to 56 Volts
- MELF Package (JEDEC DO-213AB)
- Surface Mount Devices (SMD)
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Terminals Are Readily Solderable
- Matte Tin (Sn) Lead Finish
- Color band Indicates Negative Polarity

MELF



REF.	Millimeter	
	Min.	Max.
A	4.80	5.20
B	2.39	2.66
C	0.41	0.55

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	170	°C / W
Power Dissipation	P_D	1	W
Operating and Storage Temperature Range	T_J, T_{STG}	175, -65~200	°C

Notes:
1. These ratings are limiting values above which the service ability of the diode may be impaired.

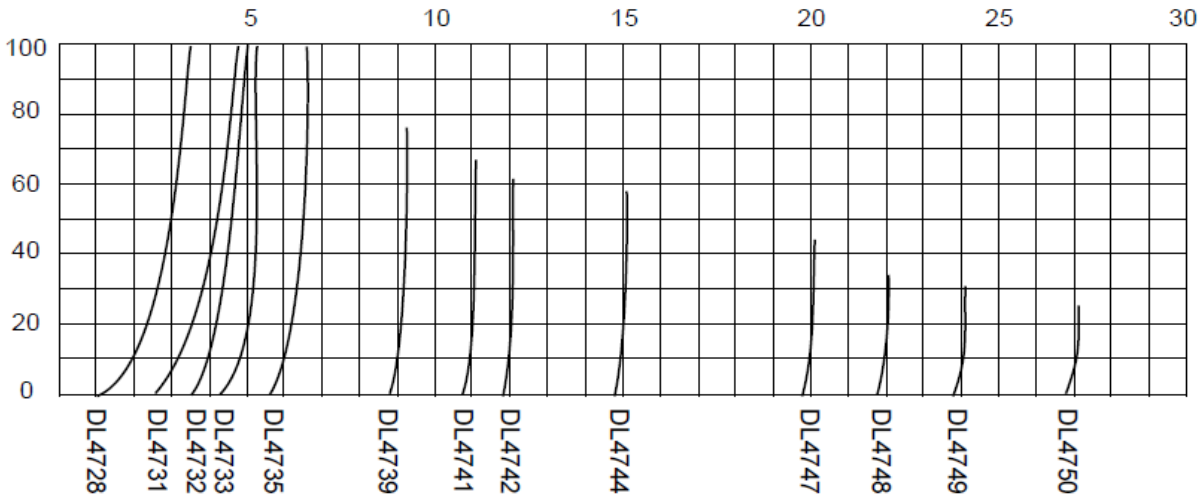
ELECTRICAL RATINGS (T_A=25°C unless otherwise specified)

Type Number	Zener Voltage Range		Zener Impedance			Leakage Current	
	V_Z @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	I_{ZK}	Z_{ZK} @ I_{ZK}	I_R @ V_R	V_R
	Nom(V)	mA	Ω(MAX)			μA(MAX)	V
DL4728A	3.3	76	10	1	400	100	1
DL4729A	3.6	69	10	1	400	100	1
DL4730A	3.9	64	9	1	400	50	1
DL4731A	4.3	58	9	1	400	10	1
DL4732A	4.7	53	8	1	500	10	1
DL4733A	5.1	49	7	1	550	10	1
DL4734A	5.6	45	5	1	600	10	2
DL4735A	6.2	41	2	1	700	10	3
DL4736A	6.8	37	3.5	1	700	10	4
DL4737A	7.5	34	4	0.5	700	10	5
DL4738A	8.2	31	4.5	0.5	700	10	6
DL4739A	9.1	28	5	0.5	700	10	7
DL4740A	10	25	7	0.25	700	10	7.6
DL4741A	11	23	8	0.25	700	5	8.4
DL4742A	12	21	9	0.25	700	5	9.1
DL4743A	13	19	10	0.25	700	5	9.9
DL4744A	15	17	14	0.25	700	5	11.4
DL4745A	16	15.5	16	0.25	700	5	12.2
DL4746A	18	14	20	0.25	700	5	13.7
DL4747A	20	12.5	22	0.25	750	5	15.2
DL4748A	22	11.5	23	0.25	750	5	16.7
DL4749A	24	10.5	25	0.25	750	5	18.2
DL4750A	27	9.5	35	0.25	750	5	20.6
DL4751A	30	8.5	40	0.25	1000	5	22.8
DL4752A	33	7.5	45	0.25	1000	5	25.1
DL4753A	36	7	50	0.25	1000	5	27.4
DL4754A	39	6.5	60	0.25	1000	5	29.7
DL4755A	43	6	70	0.25	1500	5	32.7
DL4756A	47	5.5	80	0.25	1500	5	35.8
DL4757A	51	5	95	0.25	1500	5	38.8
DL4758A	56	4.5	110	0.25	2000	5	42.6
V_F Forward Voltage=1.2V Maximum @ I_F=200mA for all types							

Notes:
1. The device numbers listed have a standard tolerance on the nominal zener voltage of ±5%.
2. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.

CHARACTERISTIC CURVES

Breakdown Characteristics



Admissible power dissipation versus ambient temperature

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

