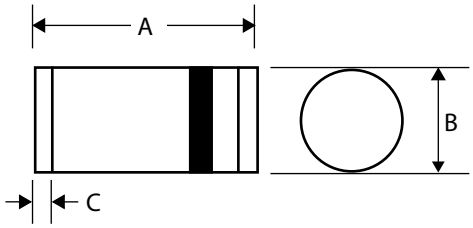
DL4728A THRU DL4764A

1W EPITAXIAL ZENER DIODE

FEATURES

- Low profile package
- Built-in strain relief
- Low inductance
- High temperature soldering : 260°C /10 seconds at terminals
- Glass package has Underwriters Laboratory Flammability Classification
- In compliance with EU RoHS 2002/95/EC directives



MECHANICAL DATA

- Case: Molded Glass LL-41
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes positive end
- Mounting position:Any
- Weight: 0.25 gram

MELF		
Dim	**Min**	**Max**
A	4.80	5.20
B	2.40	2.67
C	0.46	0.60

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES)(TA=25℃)

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=50℃	Ptot	1 1)	W
Junction temperature	TJ	175	℃
Storage temperature range	TSTG	-65 to +200	℃
1)Valid provided that a distance of 8mm from case are kept at ambient temperature			

ELECTRCAL CHARACTERISTICS(TA=25℃)

	Symbols	Min	Typ	Max	Units
Thermal resistance junction to ambient	RthA			170 1)	℃/W
Forward voltage at IF=200mA	VF			1.2	V
1) Valid provided that a distance at 8mm from case are kept at ambient temperature					

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Type Number	Nominal Zener Voltage (1)	Test Current	Maximum Zener Impedance (2)			Maximum Reverse Leakage Current		Max Surge Current 8.3ms	Maximum Zener Current
	V_Z @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R	@ V_R	I_{ZS}	I_{ZM}
	V	mA	Ω	Ω	mA	μA	V	mA	mA
DL4728A	3.3	76	10	400	1.0	100	1.0	1380	276
DL4729A	3.6	69	10	400	1.0	100	1.0	1260	252
DL4730A	3.9	64	9.0	400	1.0	50	1.0	1190	234
DL4731A	4.3	58	9.0	400	1.0	10	1.0	1070	217
DL4732A	4.7	53	8.0	500	1.0	10	1.0	970	193
DL4733A	5.1	49	7.0	550	1.0	10	1.0	890	178
DL4734A	5.6	45	5.0	600	1.0	10	2.0	810	162
DL4735A	6.2	41	2.0	700	1.0	10	3.0	730	146
DL4736A	6.8	37	3.5	700	1.0	10	4.0	660	133
DL4737A	7.5	34	4.0	700	0.5	10	5.0	605	121
DL4738A	8.2	31	4.5	700	0.5	10	6.0	550	110
DL4739A	9.1	28	5.0	700	0.5	10	7.0	500	100
DL4740A	10	25	7.0	700	0.25	10	7.6	454	91
DL4741A	11	23	8.0	700	0.25	5.0	8.4	414	83
DL4742A	12	21	9.0	700	0.25	5.0	9.1	380	76
DL4743A	13	19	10	700	0.25	5.0	9.9	344	69
DL4744A	15	17	14	700	0.25	5.0	11.4	304	61
DL4745A	16	15.5	16	700	0.25	5.0	12.2	285	57
DL4746A	18	14	20	750	0.25	5.0	13.7	250	50
DL4747A	20	12.5	22	750	0.25	5.0	15.2	225	45
DL4748A	22	11.5	23	750	0.25	5.0	16.7	205	41
DL4749A	24	10.5	25	750	0.25	5.0	18.2	190	38
DL4750A	27	9.5	35	750	0.25	5.0	20.6	170	34
DL4751A	30	8.5	40	1000	0.25	5.0	22.8	150	30
DL4752A	33	7.5	45	1000	0.25	5.0	25.1	135	27
DL4753A	36	7.0	50	1000	0.25	5.0	27.4	125	25
DL4754A	39	6.5	60	1000	0.25	5.0	29.7	115	23
DL4755A	43	6.0	70	1500	0.25	5.0	32.7	110	22
DL4756A	47	5.5	80	1500	0.25	5.0	35.8	95	19
DL4757A	51	5.0	95	1500	0.25	5.0	38.8	90	18
DL4758A	56	4.5	110	2000	0.25	5.0	42.6	80	16
DL4759A	62	4.0	125	2000	0.25	5.0	47.1	70	14
DL4760A	68	3.7	150	2000	0.25	5.0	51.7	65	13
DL4761A	75	3.3	175	2000	0.25	5.0	56.0	60	12
DL4762A	82	3.0	200	3000	0.25	5.0	62.2	55	11
DL4763A	91	2.8	250	3000	0.25	5.0	69.2	50	10
DL4764A	100	2.5	350	3000	0.25	5.0	76.0	45	9.0

Notes: 1. Measured under thermal equilibrium and DC (I_{ZT}) test conditions.

2. The Zener impedance is derived from the 60Hz 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.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1 – BREAKDOWN CHARACTERISTICS

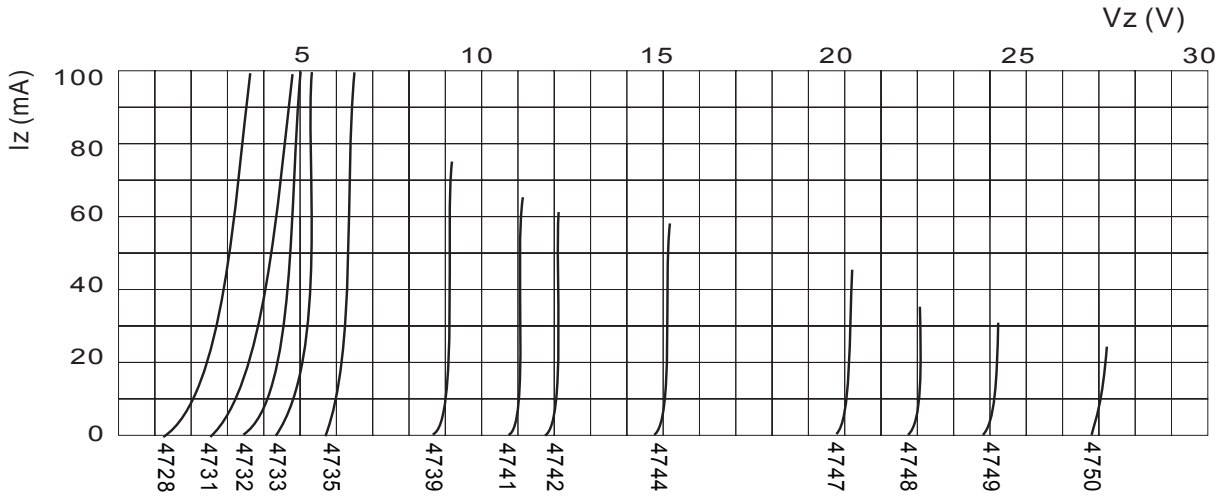

FIG.2 – ADMISSIBLE POWER DISSIPATION VERSUS AMBIENT TEMPERATURE