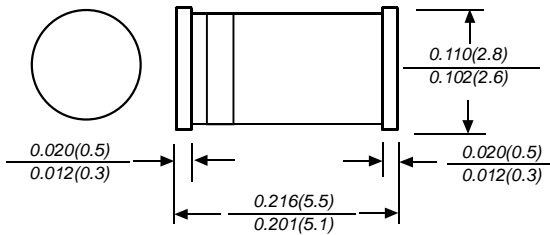


**DL47-SERIES**  
**ZENER DIODES**

**Zener Voltage:3.3-100V Peak Pulse Power:0.5W**

**DL-41**



*Dimensions in inches and (millimeters)*

**FEATURE**

- ◆ Low zener impedance
- ◆ Low regulation factor
- ◆ Glass passivated junction
- ◆ High temperature soldering guaranteed:  
260°C/10S at terminals
- ◆ Green Products in Compliance with the RoHS Directive

**MECHANICAL DATA**

**Case:** DL-41 molded glass body

**Terminals:** Plated axial leads, solderable per MIL-STD 750, method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.012 ounce,0.33 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

	<b>SYMBOLS</b>	<b>VALUE</b>	<b>UNITS</b>
Zener Current see Table Characteristics			
Power Dissipation at Tamb=25°C(Note 1)	P <sub>tot</sub>	500	mW
Junction Temperature	T <sub>j</sub>	175	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to + 175	°C
Thermal resistance junction ambient(Note 1)	R <sub>θJA</sub>	0.3	KW
Forward voltage at I <sub>F</sub> =200mA	V <sub>F</sub>	1.1	V

Note 1: Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

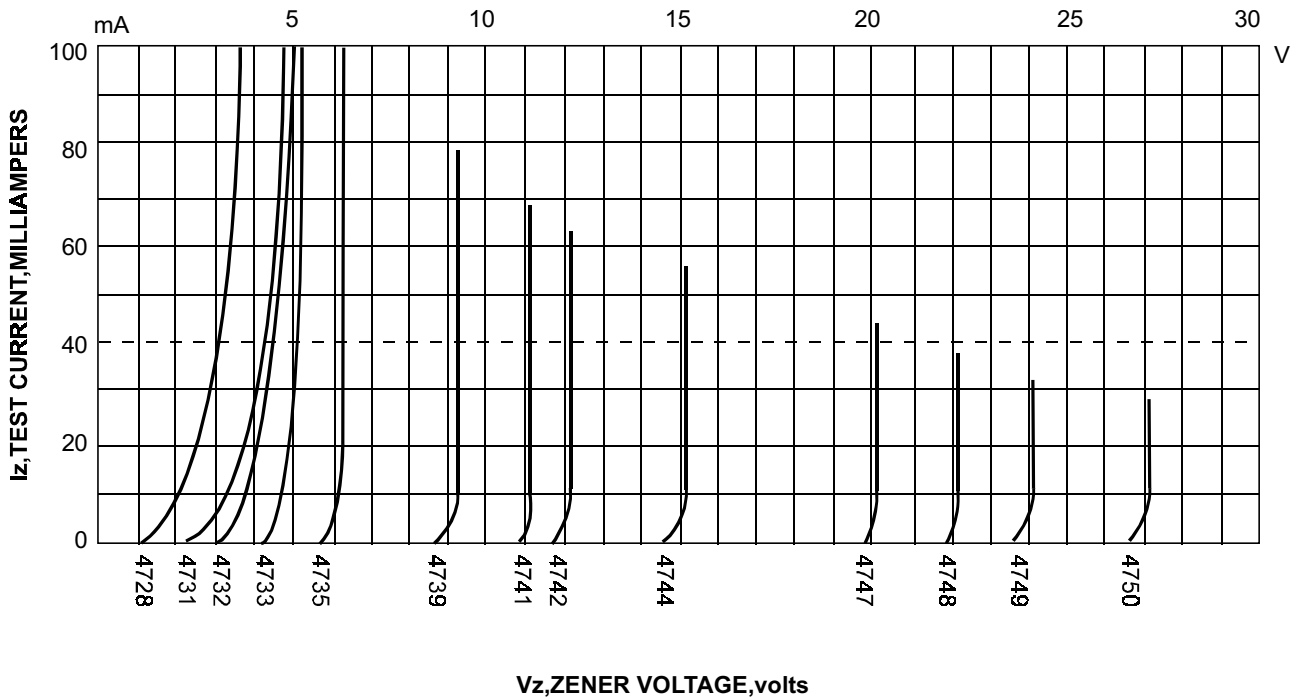
**ELECTRICAL CHARACTERISTICS (at TA=25°C unless otherwise noted)**

Device Type	Nominal Zener Voltage Vz@Izr	Test Current Izr	Maximum Zener Impedance		Maximum Reverse Leakage Current		Izk	Max.Surge Current Ir@25°C	Maximum Regulator Current Izm
	Volts		Zzt@Izr	Zzt@Izk	Ir	@Vr			
			mA	Ohms	Ohms	µA	Volts	mA	mA
DL4728A-G	3.3	76	10	400	100	1.0	1.0	1380	276
DL4729A-G	3.6	69	10	400	100	1.0	1.0	1260	252
DL4730A-G	3.9	64	9.0	400	50	1.0	1.0	1170	234
DL4731A-G	4.3	58	9.0	400	10	1.0	1.0	1085	217
DL4732A-G	4.7	53	8.0	500	10	1.0	1.0	965	193
DL4733A-G	5.1	49	7.0	550	10	1.0	1.0	890	178
DL4734A-G	5.6	45	5.0	600	10	2.0	1.0	810	162
DL4735A-G	6.2	41	2.0	700	10	3.0	1.0	730	146
DL4736A-G	6.8	37	3.5	700	10	4.0	1.0	660	133
DL4737A-G	7.5	34	4.0	700	10	5.0	0.5	605	121
DL4738A-G	8.2	31	4.5	700	10	6.0	0.5	550	110
DL4739A-G	9.1	28	5.0	700	10	7.0	0.5	500	100
DL4740A-G	10	25	7.0	700	10	7.6	0.25	454	91
DL4741A-G	11	23	8.0	700	5.0	8.4	0.25	414	83
DL4742A-G	12	21	9.0	700	5.0	9.1	0.25	380	76
DL4743A-G	13	19	10	700	5.0	9.9	0.25	344	69
DL4744A-G	15	17	14	700	5.0	11.4	0.25	304	61
DL4745A-G	16	15.5	16	700	5.0	12.2	0.25	285	57
DL4746A-G	18	14	20	750	5.0	13.7	0.25	250	50
DL4747A-G	20	12.5	22	750	5.0	15.2	0.25	225	45
DL4748A-G	22	11.5	23	750	5.0	16.7	0.25	205	41
DL4749A-G	24	10.5	25	750	5.0	18.2	0.25	190	38
DL4750A-G	27	9.5	35	750	5.0	20.6	0.25	170	34
DL4751A-G	30	8.5	40	1000	5.0	22.8	0.25	150	30
DL4752A-G	33	7.5	45	1000	5.0	25.1	0.25	135	27
DL4753A-G	36	7.0	50	1000	5.0	27.4	0.25	125	25
DL4754A-G	39	6.5	60	1000	5.0	29.7	0.25	115	23
DL4755A-G	43	6.0	70	1500	5.0	32.7	0.25	110	22
DL4756A-G	47	5.5	80	1500	5.0	35.8	0.25	95	19
DL4757A-G	51	5.0	95	1500	5.0	38.8	0.25	90	18
DL4758A-G	56	4.5	110	2000	5.0	42.6	0.25	80	16
DL4759A-G	62	4.0	125	2000	5.0	47.1	0.25	70	14
DL4760A-G	68	3.7	150	2000	5.0	51.7	0.25	65	13
DL4761A-G	75	3.3	175	2000	5.0	56.0	0.25	60	12
DL4762A-G	82	3.0	200	3000	5.0	62.2	0.25	55	11
DL4763A-G	91	2.8	250	3000	5.0	69.2	0.25	50	10
DL4764A-G	100	2.5	350	3000	5.0	76.0	0.25	45	9

Note 1: Suffix "A" indicate ±5% tolerance

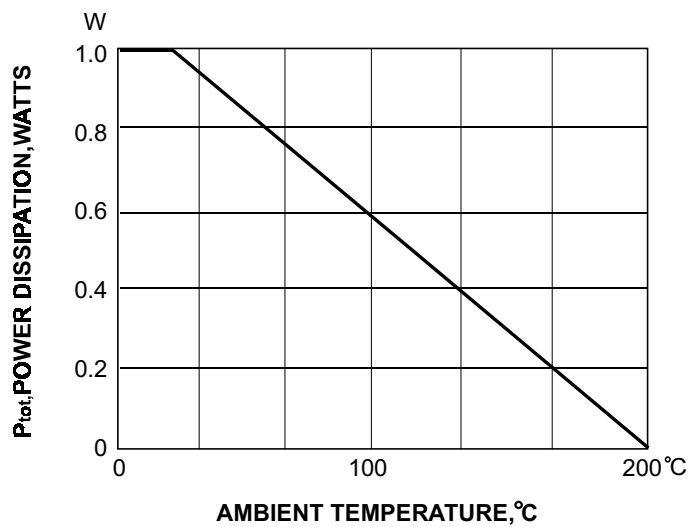
**RATINGS AND CHARACTERISTIC CURVES DL47 SERIES**

**Breakdown characteristics**



**Admissible power dissipation versus ambient temperature**

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



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