Technical Data
Data Sheet N0203, Rev. A

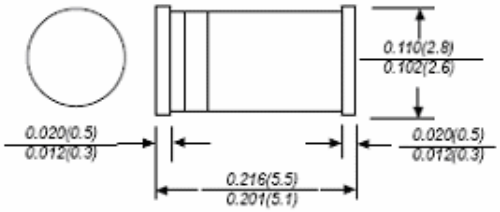
Green Products

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℃/10S at terminals
- This is a Pb - Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

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
Marking: Part Name, SSG and Date Code

ORDERING INFORMATION

Device	Package	Shipping
DL47-SERIES	DL-41 (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

	SYMBOLS	*VALUE*	*UNITS*
Zener Current see Table Characteristics			
Power Dissipation at Tamb=25℃(Note 1)	P_{tot}	500	mW
Junction Temperature	T_j	175	℃
Storage Temperature Range	T_{STG}	-65 to + 175	℃
Thermal resistance junction ambient(Note 1	$R_{\theta JA}$	0.3	KW
Forward voltage at I_F=200mA	V_F	1.1	V

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

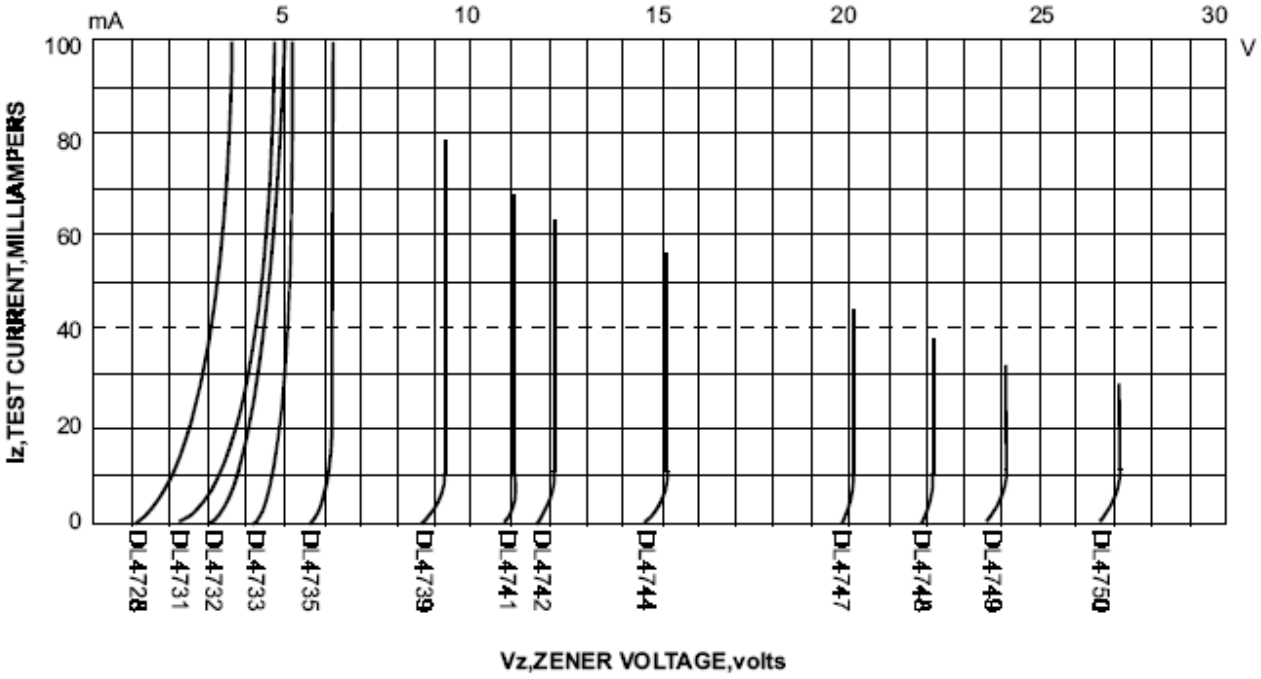
ELECTRICAL CHARACTERISTICS (at T_A=25℃ unless otherwise noted)

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

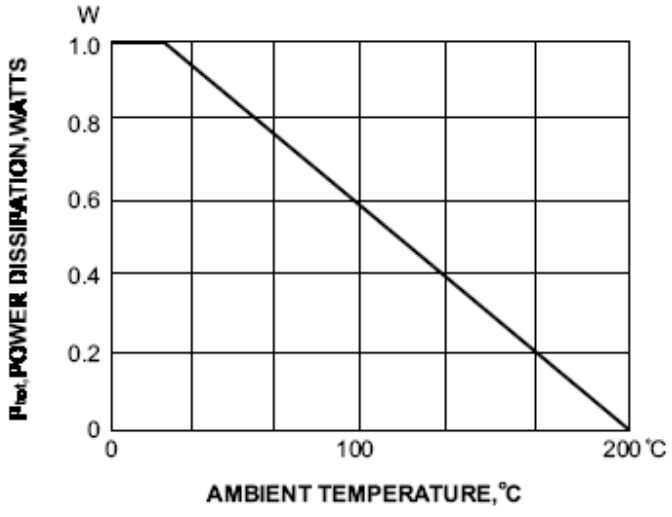
Note 1: Suffix "A" indicate ±5% tolerance

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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