

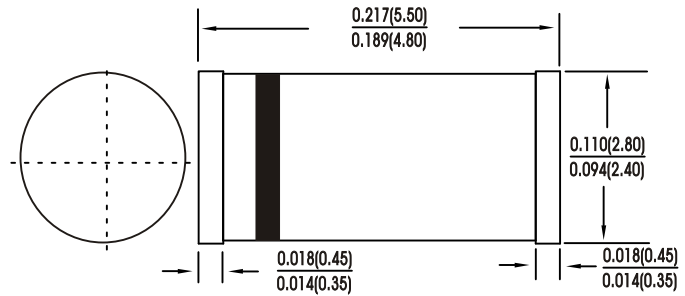
# DL4728(A) THRU DL4764(A)

## SURFACE MOUNT ZENER DIODES

### FEATURES:

- Standard Zener voltage tolerance is  $\pm 5\%$  with "A" suffix
- These diodes are also available in DO-41 case with the type designation 1N4728A.....1N4764A

### DL-41



### MECHANICAL DATA

Case: DL-41 Molded Glass  
Weight: 0.116 grams

Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

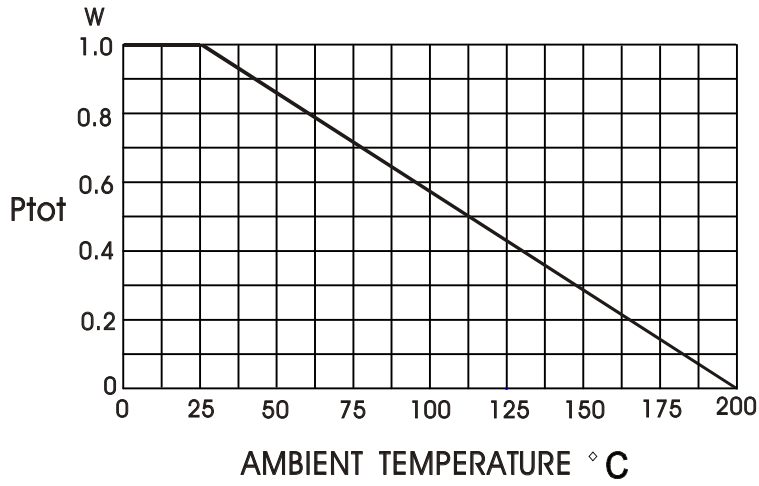
Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

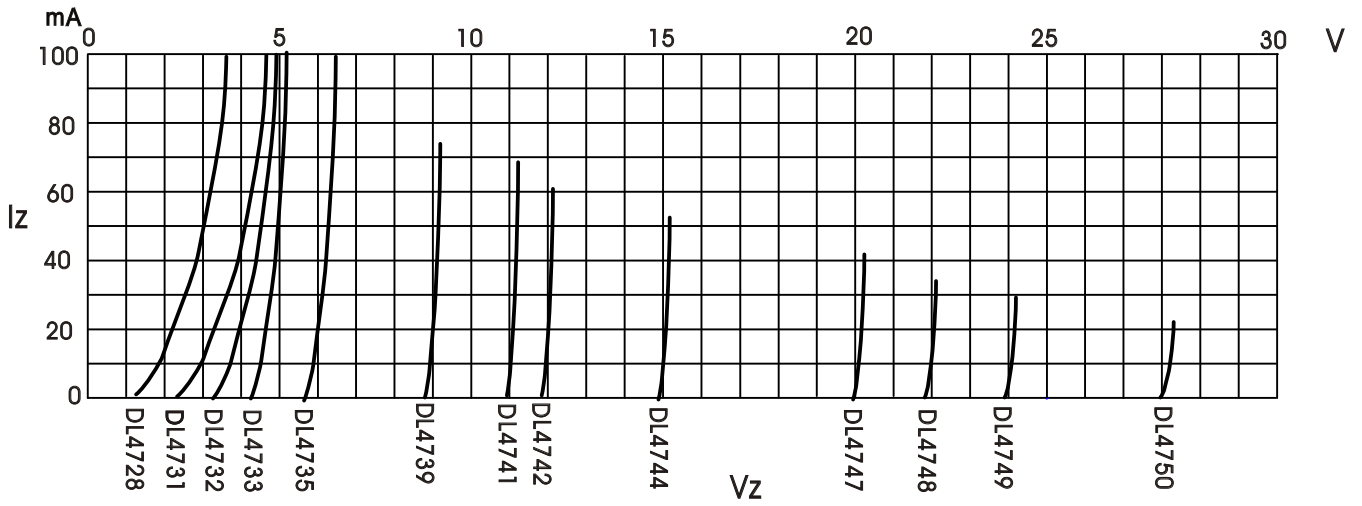
Characteristic	Symbol	Value	Units
Power Dissipation at Tamb=25 °C	P <sub>tot</sub>	1.0 <sup>1)</sup>	W
Thermal Resistance Junction to Ambient Air	R <sub>thJ-A</sub>	170 <sup>1)</sup>	K/W
Maximum instantaneous forward voltage drop at I <sub>F</sub> =200 mADC	V <sub>F</sub>	1.2	Volts
JUNCTION temperature	T <sub>J</sub>	200	°C
Storage temperature range	T <sub>stg</sub>	-65 to +200	°C

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

### Admissible power dissipation versus ambient temperature



### Breakdown characteristics



## SURFACE MOUNT ZENER DIODES DL4728(A) THRU DL4764(A)

Device Type	Nominal Zener Voltage Vz at IzT	Test Current IzT	Maximum Zener Impedance			Maximum Reverse Leakage Current		Surge Current IR at Ta=25°C	Maximum Regulator Current IzM
			ZzT at IzT	ZzK at IzK	IzK	IR	Test-Voltage suffix B		
	Volts	mA	Ω	Ω	mA	μA	Volts	mA	mA
DL4728(A)	3.3	76	10	400	1.0	100	1.0	1380	276
DL4729(A)	3.6	69	10	400	1.0	100	1.0	1260	252
DL4730(A)	3.9	64	9.0	400	1.0	50	1.0	1170	234
DL4731(A)	4.3	58	9.0	400	1.0	10	1.0	1085	217
DL4732(A)	4.7	53	8.0	500	1.0	10	1.0	965	193
DL4733(A)	5.1	49	7.0	550	1.0	10	1.0	890	178
DL4734(A)	5.6	45	5.0	600	1.0	10	2.0	810	162
DL4735(A)	6.2	41	2.0	700	1.0	10	3.0	730	146
DL4736(A)	6.8	37	3.5	700	1.0	10	4.0	660	133
DL4737(A)	7.5	34	4.0	700	0.5	10	5.0	605	121
DL4738(A)	8.2	31	4.5	700	0.5	10	6.0	550	110
DL4739(A)	9.1	28	5.0	700	0.5	10	7.0	500	100
DL4740(A)	10	25	7.0	700	0.25	10	7.6	454	91
DL4741(A)	11	23	8.0	700	0.25	5	8.4	414	83
DL4742(A)	12	21	9.0	700	0.25	5	9.1	380	76
DL4743(A)	13	19	10	700	0.25	5	9.9	344	69
DL4744(A)	15	17	14	700	0.25	5	11.4	304	61
DL4745(A)	16	15.5	16	700	0.25	5	12.2	285	57
DL4746(A)	18	14	20	750	0.25	5	13.7	250	50
DL4747(A)	20	12.5	22	750	0.25	5	15.2	225	45
DL4748(A)	22	11.5	23	750	0.25	5	16.7	205	41
DL4749(A)	24	10.5	25	750	0.25	5	18.2	190	38
DL4750(A)	27	9.5	35	750	0.25	5	20.6	170	34
DL4751(A)	30	8.5	40	1000	0.25	5	22.8	150	30
DL4752(A)	33	7.5	45	1000	0.25	5	25.1	135	27
DL4753(A)	36	7.0	50	1000	0.25	5	27.4	125	25
DL4754(A)	39	6.5	60	1000	0.25	5	29.7	115	23
DL4755(A)	43	6.0	70	1500	0.25	5	32.7	110	22
DL4756(A)	47	5.5	80	1500	0.25	5	35.8	95	19
DL4757(A)	51	5.0	95	1500	0.25	5	38.8	90	18
DL4758(A)	56	4.5	110	2000	0.25	5	42.6	80	16
DL4759(A)	62	4.0	125	2000	0.25	5	47.1	70	14
DL4760(A)	68	3.7	150	2000	0.25	5	51.7	65	13
DL4761(A)	75	3.3	175	2000	0.25	5	56.0	60	12
DL4762(A)	82	3.0	200	3000	0.25	5	62.2	55	11
DL4763(A)	91	2.8	250	3000	0.25	5	69.2	50	10
DL4764(A)	100	2.5	350	3000	0.25	5	76.0	45	9

STANDARD VOLTAGE TOLERANCE IS ±10% AND SUFFIX "A" FOR ±5%

OTHERS TOLERANCES UPON REQUEST

ZENER DIODE NUMBERING SYSTEM :  $\frac{DL4731}{1^*} \frac{A}{2^*}$

1\* TYPE NO

2\* TOLERANCE OF VZ.

3\* E.g., DL4731A=4.3V± 5%