

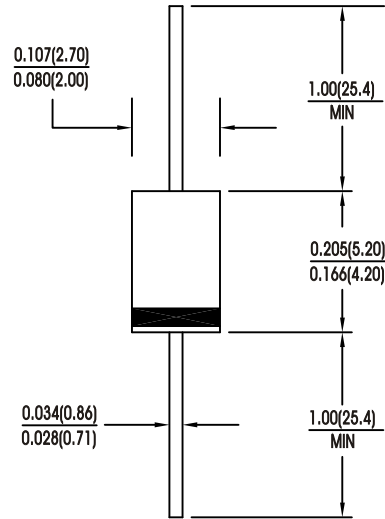
# 1N4728(A) THRU 1N4764(A)

## SURFACE MOUNT ZENER DIODES

### FEATURES:

- Standard Zener voltage tolerance is  $\pm 5\%$  with "A" suffix
- These diodes are also available in DL-41 case with the type designation DL4728A.....DL4764A

### DO-41



### MECHANICAL DATA

Case: DO-41 Molded Glass  
Weight: 0.35 grams

Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

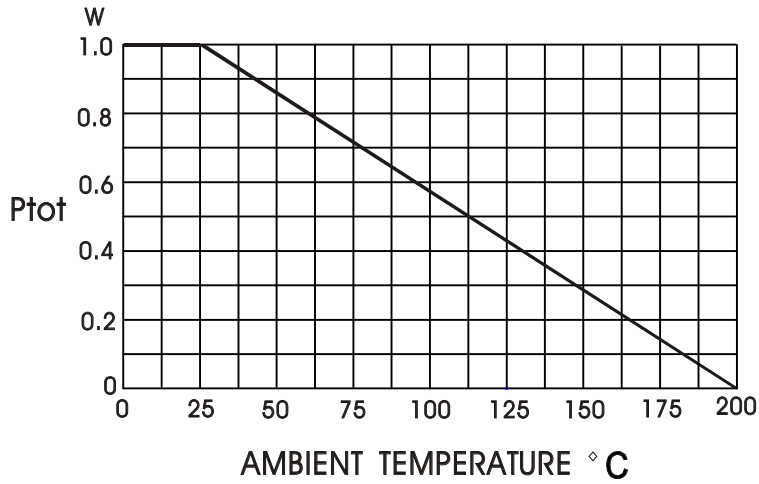
Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

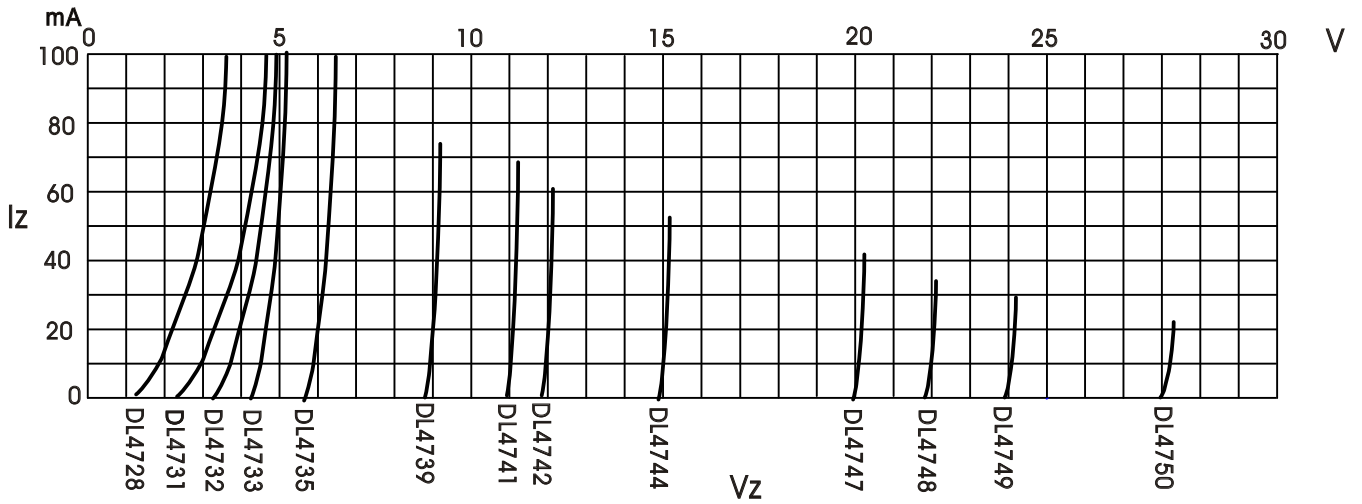
Characteristic	Symbol	Value	Units
Power Dissipation at Tamb=25 °C	P <sub>tot</sub>	1.0 <sup>1)</sup>	W
Thermal Resistance Junction to Ambient Air	R <sub>thJ-A</sub>	170 <sup>1)</sup>	K/W
Maximum instantaneous forward voltage drop at I <sub>F</sub> =200 mADC	V <sub>F</sub>	1.2	Volts
JUNCTION temperature	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 IN4728(A) THRU IN4764(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
1N4728(A)	3.3	76	10	400	1.0	100	1.0	1380	276
1N4729(A)	3.6	69	10	400	1.0	100	1.0	1260	252
1N4730(A)	3.9	64	9.0	400	1.0	50	1.0	1170	234
1N4731(A)	4.3	58	9.0	400	1.0	10	1.0	1085	217
1N4732(A)	4.7	53	8.0	500	1.0	10	1.0	965	193
1N4733(A)	5.1	49	7.0	550	1.0	10	1.0	890	178
1N4734(A)	5.6	45	5.0	600	1.0	10	2.0	810	162
1N4735(A)	6.2	41	2.0	700	1.0	10	3.0	730	146
1N4736(A)	6.8	37	3.5	700	1.0	10	4.0	660	133
1N4737(A)	7.5	34	4.0	700	0.5	10	5.0	605	121
1N4738(A)	8.2	31	4.5	700	0.5	10	6.0	550	110
1N4739(A)	9.1	28	5.0	700	0.5	10	7.0	500	100
1N4740(A)	10	25	7.0	700	0.25	10	7.6	454	91
1N4741(A)	11	23	8.0	700	0.25	5	8.4	414	83
1N4742(A)	12	21	9.0	700	0.25	5	9.1	380	76
1N4743(A)	13	19	10	700	0.25	5	9.9	344	69
1N4744(A)	15	17	14	700	0.25	5	11.4	304	61
1N4745(A)	16	15.5	16	700	0.25	5	12.2	285	57
1N4746(A)	18	14	20	750	0.25	5	13.7	250	50
1N4747(A)	20	12.5	22	750	0.25	5	15.2	225	45
1N4748(A)	22	11.5	23	750	0.25	5	16.7	205	41
1N4749(A)	24	10.5	25	750	0.25	5	18.2	190	38
1N4750(A)	27	9.5	35	750	0.25	5	20.6	170	34
1N4751(A)	30	8.5	40	1000	0.25	5	22.8	150	30
1N4752(A)	33	7.5	45	1000	0.25	5	25.1	135	27
1N4753(A)	36	7.0	50	1000	0.25	5	27.4	125	25
1N4754(A)	39	6.5	60	1000	0.25	5	29.7	115	23
1N4755(A)	43	6.0	70	1500	0.25	5	32.7	110	22
1N4756(A)	47	5.5	80	1500	0.25	5	35.8	95	19
1N4757(A)	51	5.0	95	1500	0.25	5	38.8	90	18
1N4758(A)	56	4.5	110	2000	0.25	5	42.6	80	16
1N4759(A)	62	4.0	125	2000	0.25	5	47.1	70	14
1N4760(A)	68	3.7	150	2000	0.25	5	51.7	65	13
1N4761(A)	75	3.3	175	2000	0.25	5	56.0	60	12
1N4762(A)	82	3.0	200	3000	0.25	5	62.2	55	11
1N4763(A)	91	2.8	250	3000	0.25	5	69.2	50	10
1N4764(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 :  $\frac{DI4731}{1^*} \frac{A}{2^*}$

1\* TYPE NO

2\* TOLERANCE OF VZ.

3\* E.g., DL4731A=4.3V± 5%