



1N4728 THRU 1N4764

ZENER DIODES

Zener Voltage:3.3-100V Peak Pulse Power:1.0W

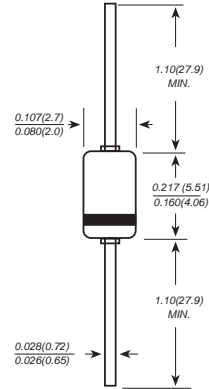
FEATURE

- Low zener impedance
- Low regulation factor
- Glass passivated junction
- High temperature soldering guaranteed:
260 °C/10S/9.5mm lead length at 5 lbs tension

MECHANICAL DATA

- Case:** JEDEC DO-41(GLASS) 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,0.35 grams

DO-41(GLASS)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	<i>SYMBOLS</i>	<i>VALUE</i>	<i>UNITS</i>
Zener Current see Table Characteristics			
Power Dissipation at Tamb=25°C(Note 1)	P _{tot}	1000	mW
Junction Temperature	T _j	200	°C
Storage Temperature Range	T _{STG}	-65 to + 200	°C
Thermal resistance junction ambient(Note 1)	R _{θJA}	170	°C/W
Forward voltage at I _F =200mA	V _F	1.2	V

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



ELECTRICAL CHARACTERISTICS (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

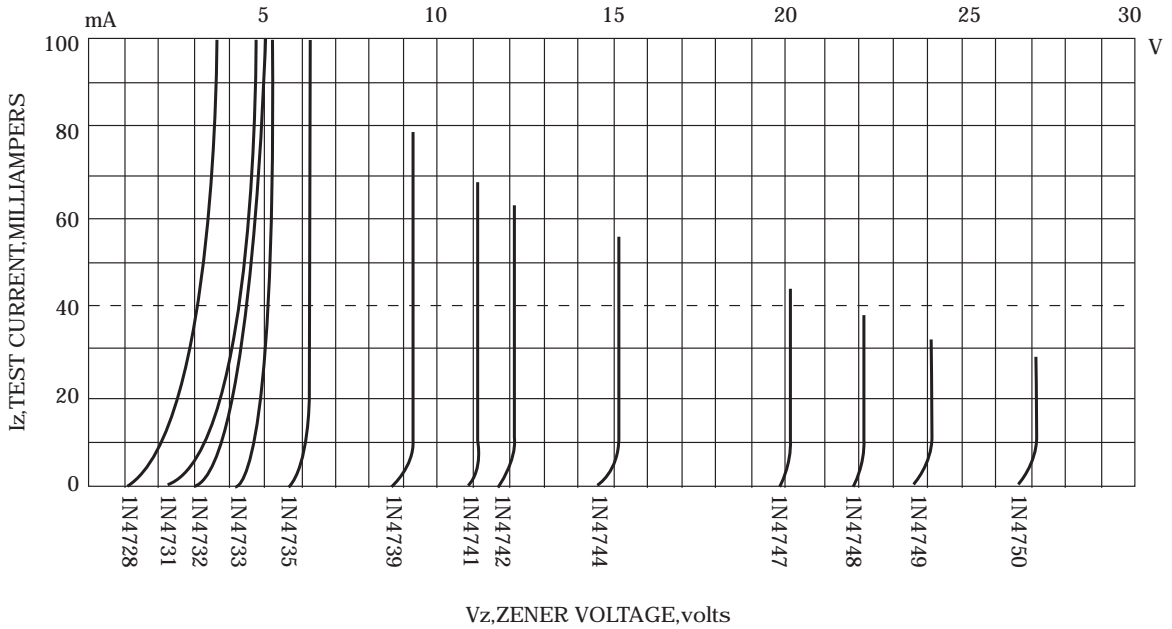
Device Type	Nominal Zener Voltage $V_Z@I_ZT$	Test Current I_ZT	Maximum Zener Impedance		Maximum Reverse Leakage Current		I_{ZK}	Max. Surge Current $I_R@25^{\circ}\text{C}$	Maximum Regulator Current I_{ZM}
			$Z_{ZT}@I_ZT$	$Z_{ZT}@I_{ZK}$	I_R	@ V_R			
	Volts	mA	Ohms	Ohms	μA	Volts	mA	mA	mA
1N4728	3.3	76	10	400	100	1.0	1.0	1380	276
1N4729	3.6	69	10	400	100	1.0	1.0	1260	252
1N4730	3.9	64	9.0	400	50	1.0	1.0	1170	234
1N4731	4.3	58	9.0	400	10	1.0	1.0	1085	217
1N4732	4.7	53	8.0	500	10	1.0	1.0	965	193
1N4733	5.1	49	7.0	550	10	1.0	1.0	890	178
1N4734	5.6	45	5.0	600	10	2.0	1.0	810	162
1N4735	6.2	41	2.0	700	10	3.0	1.0	730	146
1N4736	6.8	37	3.5	700	10	4.0	1.0	660	133
1N4737	7.5	34	4.0	700	10	5.0	0.5	605	121
1N4738	8.2	31	4.5	700	10	6.0	0.5	550	110
1N4739	9.1	28	5.0	700	10	7.0	0.5	500	100
1N4740	10	25	7.0	700	10	7.6	0.25	454	91
1N4741	11	23	8.0	700	5.0	8.4	0.25	414	83
1N4742	12	21	9.0	700	5.0	9.1	0.25	380	76
1N4743	13	19	10	700	5.0	9.9	0.25	344	69
1N4744	15	17	14	700	5.0	11.4	0.25	304	61
1N4745	16	15.5	16	700	5.0	12.2	0.25	285	57
1N4746	18	14	20	750	5.0	13.7	0.25	250	50
1N4747	20	12.5	22	750	5.0	15.2	0.25	225	45
1N4748	22	11.5	23	750	5.0	16.7	0.25	205	41
1N4749	24	10.5	25	750	5.0	18.2	0.25	190	38
1N4750	27	9.5	35	750	5.0	20.6	0.25	170	34
1N4751	30	8.5	40	1000	5.0	22.8	0.25	150	30
1N4752	33	7.5	45	1000	5.0	25.1	0.25	135	27
1N4753	36	7.0	50	1000	5.0	27.4	0.25	125	25
1N4754	39	6.5	60	1000	5.0	29.7	0.25	115	23
1N4755	43	6.0	70	1500	5.0	32.7	0.25	110	22
1N4756	47	5.5	80	1500	5.0	35.8	0.25	95	19
1N4757	51	5.0	95	1500	5.0	38.8	0.25	90	18
1N4758	56	4.5	110	2000	5.0	42.6	0.25	80	16
1N4759	62	4.0	125	2000	5.0	47.1	0.25	70	14
1N4760	68	3.7	150	2000	5.0	51.7	0.25	65	13
1N4761	75	3.3	175	2000	5.0	56.0	0.25	60	12
1N4762	82	3.0	200	3000	5.0	62.2	0.25	55	11
1N4763	91	2.8	250	3000	5.0	69.2	0.25	50	10
1N4764	100	2.5	350	3000	5.0	76.0	0.25	45	9

Note 1: Suffix "A" indicate $\pm 5\%$ tolerance



RATINGS AND CHARACTERISTIC CURVES 1N47 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

