

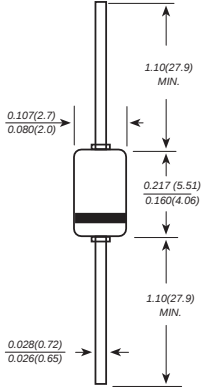


1N47-SERIES

ZENER DIODES

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

DO-41(GLASS)



Dimensions in inches and (millimeters)

FEATURE

- ◆ Low zener impedance
- ◆ Low regulation factor
- ◆ Glass passivated junction

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	VALUE	UNITS
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 _{JA}	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

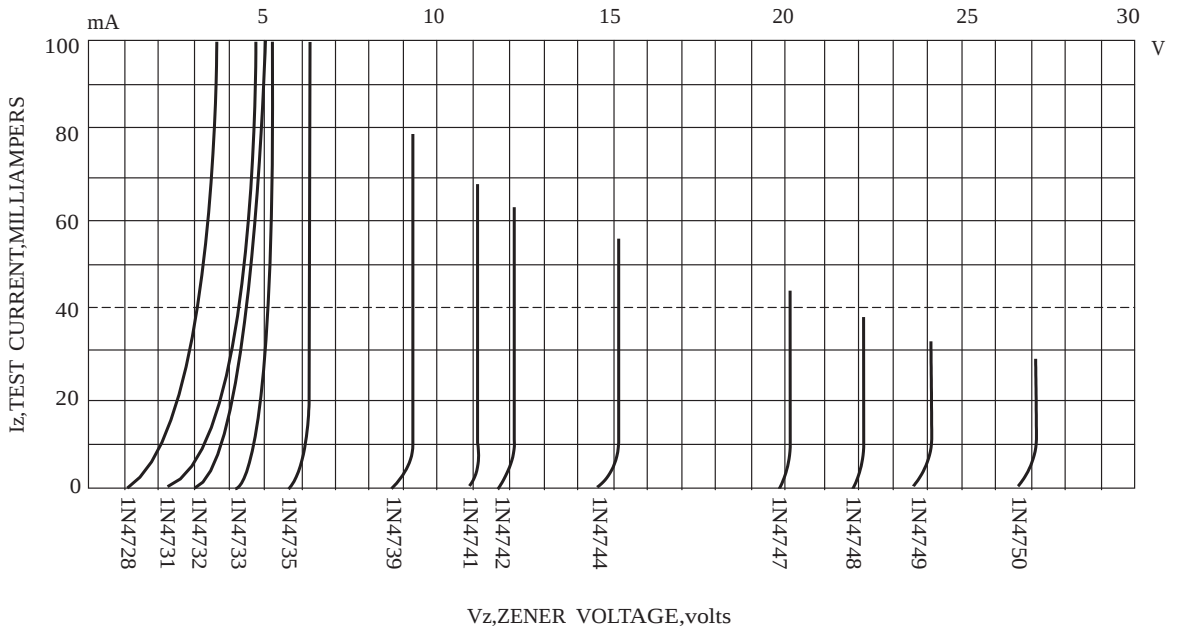
ELECTRICAL CHARACTERISTICS (at TA=25°C unless otherwise noted)

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 C	Maximum Regulator Current I _{ZM}
	Volts	mA	Z _{ZT} @I _{ZT}	Z _{ZT} @I _{ZK}	I _R	@V _R			
			Ohms	Ohms	A	Volts			
1N4728A-G	3.3	76	10	400	100	1.0	1.0	1380	276
1N4729A-G	3.6	69	10	400	100	1.0	1.0	1260	252
1N4730A-G	3.9	64	9.0	400	50	1.0	1.0	1170	234
1N4731A-G	4.3	58	9.0	400	10	1.0	1.0	1085	217
1N4732A-G	4.7	53	8.0	500	10	1.0	1.0	965	193
1N4733A-G	5.1	49	7.0	550	10	1.0	1.0	890	178
1N4734A-G	5.6	45	5.0	600	10	2.0	1.0	810	162
1N4735A-G	6.2	41	2.0	700	10	3.0	1.0	730	146
1N4736A-G	6.8	37	3.5	700	10	4.0	1.0	660	133
1N4737A-G	7.5	34	4.0	700	10	5.0	0.5	605	121
1N4738A-G	8.2	31	4.5	700	10	6.0	0.5	550	110
1N4739A-G	9.1	28	5.0	700	10	7.0	0.5	500	100
1N4740A-G	10	25	7.0	700	10	7.6	0.25	454	91
1N4741A-G	11	23	8.0	700	5.0	8.4	0.25	414	83
1N4742A-G	12	21	9.0	700	5.0	9.1	0.25	380	76
1N4743A-G	13	19	10	700	5.0	9.9	0.25	344	69
1N4744A-G	15	17	14	700	5.0	11.4	0.25	304	61
1N4745A-G	16	15.5	16	700	5.0	12.2	0.25	285	57
1N4746A-G	18	14	20	750	5.0	13.7	0.25	250	50
1N4747A-G	20	12.5	22	750	5.0	15.2	0.25	225	45
1N4748A-G	22	11.5	23	750	5.0	16.7	0.25	205	41
1N4749A-G	24	10.5	25	750	5.0	18.2	0.25	190	38
1N4750A-G	27	9.5	35	750	5.0	20.6	0.25	170	34
1N4751A-G	30	8.5	40	1000	5.0	22.8	0.25	150	30
1N4752A-G	33	7.5	45	1000	5.0	25.1	0.25	135	27
1N4753A-G	36	7.0	50	1000	5.0	27.4	0.25	125	25
1N4754A-G	39	6.5	60	1000	5.0	29.7	0.25	115	23
1N4755A-G	43	6.0	70	1500	5.0	32.7	0.25	110	22
1N4756A-G	47	5.5	80	1500	5.0	35.8	0.25	95	19
1N4757A-G	51	5.0	95	1500	5.0	38.8	0.25	90	18
1N4758A-G	56	4.5	110	2000	5.0	42.6	0.25	80	16
1N4759A-G	62	4.0	125	2000	5.0	47.1	0.25	70	14
1N4760A-G	68	3.7	150	2000	5.0	51.7	0.25	65	13
1N4761A-G	75	3.3	175	2000	5.0	56.0	0.25	60	12
1N4762A-G	82	3.0	200	3000	5.0	62.2	0.25	55	11
1N4763A-G	91	2.8	250	3000	5.0	69.2	0.25	50	10
1N4764A-G	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

