

1W Zener Diodes

Features

- 1W Power Dissipation
- Built-in Strain Relief
- Low Inductance
- High Stability
- Zener Voltage from 3.3V to 100V
- High temperature soldering guaranteed: 260°C/10 seconds
/.037" (9.5mm) lead length,
- RoHS Compliant



DO-41(G)



Mechanical Data

Case:	DO-41(G), Molded Glass
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Epoxy:	Plastic package has UL flammability classification 94V-0
Weight:	0.012 ounce, 0.3 gram

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	Value	Unit	Conditions
P_D	Power Dissipation above 25° C	1	W	
V_F	Forward Voltage	1.2	V	I _F =0.1 A
T_J	Max. Junction Temperature	150	° C	
T_{STG}	Storage Temperature Range	-65 to +150	° C	

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1N4728A - 1N4764A

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

P/N	Normal Zener Voltage				Maximum Zener Impedance			Maximum Regulator Current	Maximum Reverse Leakage Current	
	VZ @ IZT				ZZT @ IZT	Zzk @ Izk			IR @ VR	
	Nom. VZ	Min. VZ	Max. VZ	IZT (mA)	Ω	Ω	mA	IZM (mA)	μA	VR
1N4728A	3.3	3.14	3.47	76	10	400	1.0	276	100	1.0
1N4729A	3.6	3.42	3.78	69	10	400	1.0	252	100	1.0
1N4730A	3.9	3.71	4.10	64	9	400	1.0	234	50	1.0
1N4731A	4.3	4.09	4.52	58	9	400	1.0	217	10	1.0
1N4732A	4.7	4.47	4.94	53	8	500	1.0	193	10	1.0
1N4733A	5.1	4.85	5.36	49	7	550	1.0	178	10	1.0
1N4734A	5.6	5.32	5.88	45	5	600	1.0	162	10	2.0
1N4735A	6.2	5.89	6.51	41	2	700	1.0	146	10	3.0
1N4736A	6.8	6.46	7.14	37	3.5	700	1.0	133	10	4.0
1N4737A	7.5	7.13	7.88	34	4.0	700	0.5	121	10	5.0
1N4738A	8.2	7.79	8.61	31	4.5	700	0.5	110	10	6.0
1N4739A	9.1	8.65	9.56	28	5	700	0.5	100	10	7.0
1N4740A	10	9.50	10.50	25	7	700	0.25	91	10	7.6
1N4741A	11	10.45	11.55	23	8	700	0.25	83	5	8.4
1N4742A	12	11.40	12.60	21	9	700	0.25	76	5	9.1
1N4743A	13	12.35	13.65	19	10	700	0.25	69	5	9.9
1N4744A	15	14.25	15.75	17	14	700	0.25	61	5	11.4
1N4745A	16	15.20	16.80	15.5	16	700	0.25	57	5	12.2
1N4746A	18	17.10	18.90	14	20	750	0.25	50	5	13.7
1N4747A	20	19.00	21.00	12.5	22	750	0.25	45	5	15.2
1N4748A	22	20.90	23.10	11.5	23	750	0.25	41	5	16.7
1N4749A	24	22.80	25.20	10.5	25	750	0.25	38	5	18.2
1N4750A	27	25.65	28.35	9.5	35	750	0.25	34	5	20.6
1N4751A	30	28.50	31.50	8.5	40	1000	0.25	30	5	22.8
1N4752A	33	31.35	34.65	7.5	45	1000	0.25	27	5	25.1
1N4753A	36	34.20	37.80	7.0	50	1000	0.25	25	5	27.4
1N4754A	39	37.05	40.95	6.5	60	1000	0.25	23	5	29.7
1N4755A	43	40.85	45.15	6.0	70	1500	0.25	22	5	32.7

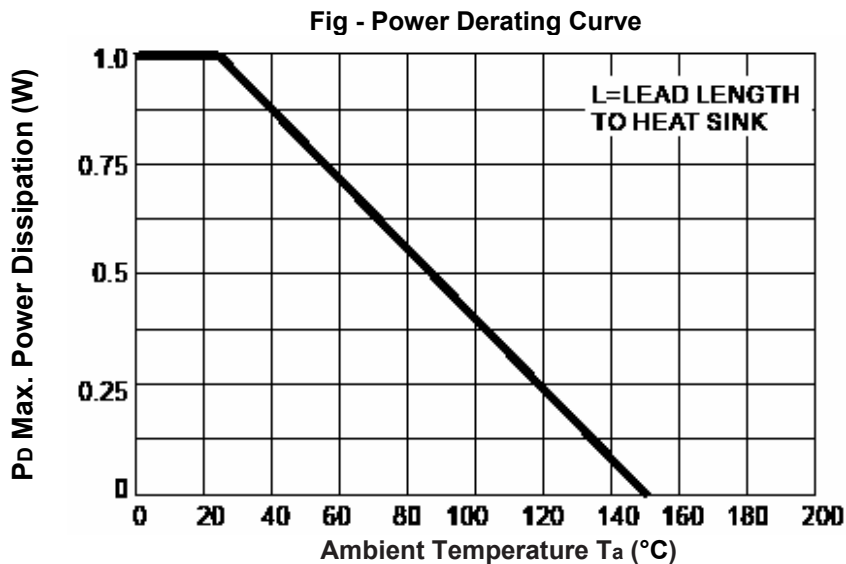
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P/N	Normal Zener Voltage				Maximum Zener Impedance			Maximum Regulator Current	Maximum Reverse Leakage Current	
	V _Z @ I _{ZT}				Z _{ZT} @ I _{ZT}	Z _{zk} @ I _{zk}			I _R @ V _R	
	Nom. V _Z	Min. V _Z	Max. V _Z	I _{ZT} (mA)	Ω	Ω	mA	I _{ZM} (mA)	μA	V _R
1N4756A	47	44.65	49.35	5.5	80	1500	0.25	19	5	35.8
1N4757A	51	48.45	53.55	5.0	95	1500	0.25	18	5	38.8
1N4758A	56	53.20	58.80	4.5	110	2000	0.25	16	5	42.6
1N4759A	62	58.90	65.10	4.0	125	2000	0.25	14	5	47.1
1N4760A	68	64.60	71.40	3.7	150	2000	0.25	13	5	51.7
1N4761A	75	71.25	78.75	3.3	175	2000	0.25	12	5	56.0
1N4762A	82	77.9	86.10	3.0	200	3000	0.25	11	5	62.2
1N4763A	91	86.45	95.55	2.8	250	3000	0.25	10	5	69.2
1N4764A	100	95.00	105.0	2.5	350	3000	0.25	9	5	76.0

Note: 1. ΔV_z (V) is the difference between V_z at 100mA and at 10mA

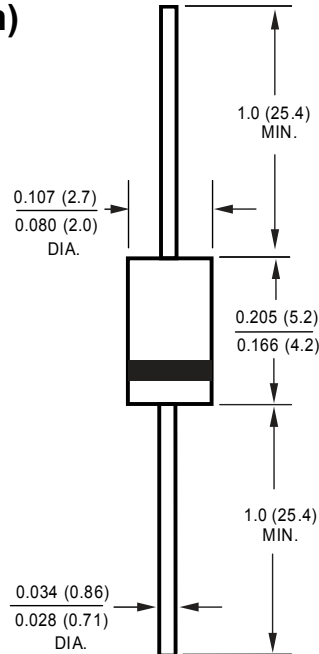
Characteristics Curves



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Dimensions in inches (mm)



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DO-41(G)

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