1.0W Glass Seal Power Zener Diode

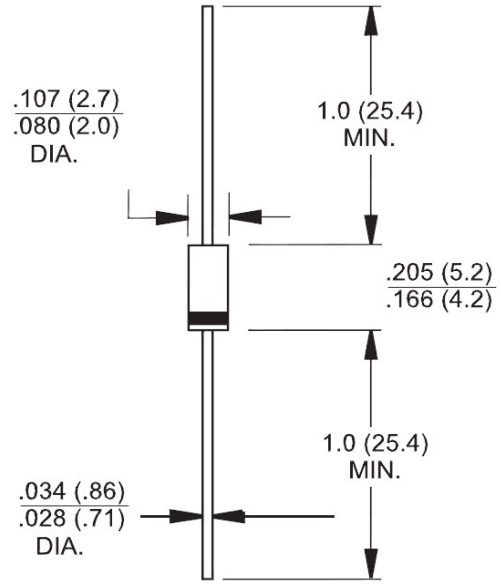
Features

- Small, light and high-quality diode with glass-seales structure
- Standard Zener voltage tolerance is ±10% Add "A" for ±5% tolerance other tolerances, non standard and higher Zener voltages upon request

Applications

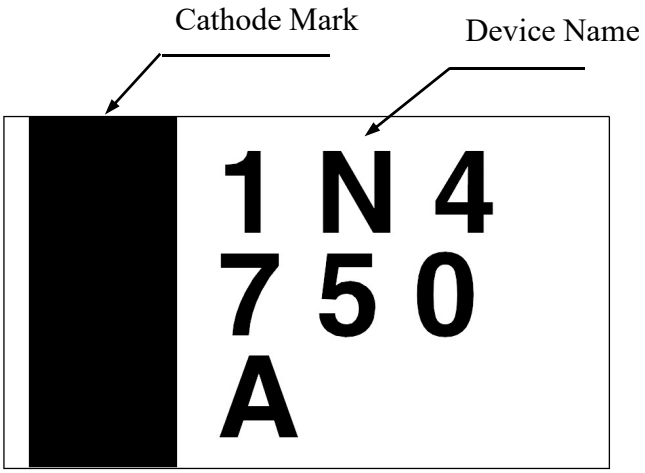
- Constant-voltage circuit
- Surge absorbing circuit
- Voltage shift circuit

DO-41



Dimensions in inches and (millimeters)

Marking



Maximum Ratings (Ta=25℃ unless otherwise noted)

Parameter	Symbol	Rated Value	Unit	Remark
Power Dissipation	P	1.0	W	
Maximum Junction Temperature	T_J	175	℃	
Storage Temperature Range	T_{STG}	-65 to +175	℃	

Electrical Characteristics (Ta=25℃ unless otherwise noted)

Type No.	Zener Voltage range 3)		Maximum Zener Ompedance 1)			Reverse Leakage Current		Surge Current at Ta=25℃	Maximum Regulator Current 2)
	Vznom	Izt	rzit and rzik at Izk			IR at VR		IR	IZM
	V	mA	Ω	Ω	mA	uA	V	mA	mA
1N4728A	3.3	76	10	400	1.0	150	1.0	1375	275
1N4729A	3.6	69	10	400	1.0	100	1.0	1260	252
1N4730A	3.9	64	9.0	400	1.0	100	1.0	1190	234
1N4731A	4.3	58	9.0	400	1.0	50	1.0	1070	217
1N4732A	4.7	53	8.0	500	1.0	10	1.0	970	193
1N4733A	5.1	49	7.0	550	1.0	10	1.0	890	178
1N4734A	5.6	45	5.0	600	1.0	10	2.0	810	162
1N4735A	6.2	41	2.0	700	1.0	10	3.0	730	146
1N4736A	6.8	37	3.5	700	1.0	10	4.0	660	133
1N4737A	7.5	34	4.0	700	0.5	10	5.0	605	121
1N4738A	8.2	31	4.5	700	0.5	10	6.0	550	110
1N4739A	9.1	28	5.0	700	0.5	10	7.0	500	100
1N4740A	10	25	7.0	700	0.25	10	7.6	454	91
1N4741A	11	23	8.0	700	0.25	5.0	8.4	414	83
1N4742A	12	21	9.0	700	0.25	5.0	9.1	380	76
1N4743A	13	19	10	700	0.25	5.0	9.9	344	69
1N4744A	15	17	14	700	0.25	5.0	11.4	304	61
1N4745A	16	15.5	16	700	0.25	5.0	12.2	285	57
1N4746A	18	14.0	20	750	0.25	5.0	13.7	250	50
1N4747A	20	12.5	22	750	0.25	5.0	15.2	225	45
1N4748A	22	11.5	23	750	0.25	5.0	16.7	205	41
1N4749A	24	10.5	25	750	0.25	5.0	18.2	190	38
1N4750A	27	9.5	35	750	0.25	5.0	20.6	170	34
1N4751A	30	8.5	40	1000	0.25	5.0	22.8	150	30
1N4752A	33	7.5	45	1000	0.25	5.0	25.1	135	27
1N4753A	36	7.0	50	1000	0.25	5.0	27.4	125	25
1N4754A	39	6.5	60	1000	0.25	5.0	29.7	115	23
1N4755A	43	6.0	70	1500	0.25	5.0	32.7	110	22
1N4756A	47	5.5	80	1500	0.25	5.0	35.8	95	19
1N4757A	51	5.0	95	1500	0.25	5.0	38.8	90	18
1N4758A	56	4.5	110	2000	0.25	5.0	42.6	80	16
1N4759A	62	4.0	125	2000	0.25	5.0	47.1	70	14
1N4760A	68	3.7	150	2000	0.25	5.0	51.7	65	13
1N4761A	75	3.3	175	2000	0.25	5.0	56.0	60	12

NOTES:
(1) The Zener Impedance is derived from the 60Hz AC voltage Which results When an AC current having an RMS value equal to 10% of the Zener current(IZT or IZK)is superimposed on IZT or IZK Zener Impedance is measured at two point to insure a sharp knee on breakdown curve and to eliminate unstable units.
(2) Vaild provided that leads at a distance of 8mm from case are kept at ambient temperature.
(3) Measured under thermal quilibrium and DC test conditions.

Electrical Characteristics (Ta=25℃ unless otherwise noted)

Type No.	Zener Voltage range 3)		Maximum Zener Ompedance 1)			Reverse Leakage Current		Surge Current at Ta=25℃	Maximum Regulator Current 2)
	Vznom	Izt	rzit and rzik at Izk			IR at VR		IR	IZM
	V	mA	Ω	Ω	mA	uA	V	mA	mA
1N4762A	82	3.0	200	3000	0.25	5.0	62.2	55	11
1N4763A	91	2.8	250	3000	0.25	5.0	69.2	50	10
1N4764A	100	2.5	350	3000	0.25	5.0	76.0	45	9

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Rating and Charateristic Curves

Admissible power dissipation versus ambient temperature
Valid provided that leads at a distance of 10mm from case are kept at ambient temperature