1N4728A thru 1N4764A

Zener Diodes

Vz Range: 3.3V to 100V Power Dissipation: 1.0W

Features

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

RoHS COMPLIANT

DO-204AL (DO-41 Glass)

Mechanical Data

- Case: JEDEC DO-41 (Glass), hermetically sealed glass body
- Terminals: Plated axial leads, solderable per MIL-STD 750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

Maximum Ratings

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Forward Voltage at I_F=200mA	V_F	1.2	V
Power Dissipation at T_A=25°C[1]	P_{tot}	1000	mW
Thermal Resistance Junction Ambient[1]	$R_{\theta JA}$	170	°C/W
Junction Temperature	T_J	200	°C
Storage Temperature Range	T_{STG}	-65 to +200	°C

Note:

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

GOOD-ARK SEMICONDUCTOR

1N4728A thru 1N4764A

Zener Diodes

Vz Range: 3.3V to 100V Power Dissipation: 1.0W

Electrical Characteristics (T_A=25°C, unless otherwise specified)

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}
	V				Z_{ZT} @ I_{ZT}	Z_{ZT} @ I_{ZK}	I_R	@ V_R			
	Min	Typ	Max	mA	Ω	Ω	uA	V	mA	mA	mA
1N4728A	3.135	3.3	3.465	76	10	400	100	1	1	1380	276
1N4729A	3.42	3.6	3.78	69	10	400	100	1	1	1260	252
1N4730A	3.705	3.9	4.095	64	9	400	50	1	1	1170	234
1N4731A	4.085	4.3	4.515	58	9	400	10	1	1	1085	217
1N4732A	4.465	4.7	4.935	53	8	500	10	1	1	965	193
1N4733A	4.845	5.1	5.355	49	7	550	10	1	1	890	178
1N4734A	5.32	5.6	5.88	45	5	600	10	2	1	810	162
1N4735A	5.89	6.2	6.51	41	2	700	10	3	1	730	146
1N4736A	6.46	6.8	7.14	37	3.5	700	10	4	1	660	133
1N4737A	7.125	7.5	7.875	34	4	700	10	5	0.5	605	121
1N4738A	7.79	8.2	8.61	31	4.5	700	10	6	0.5	550	110
1N4739A	8.645	9.1	9.555	28	5	700	10	7	0.5	500	100
1N4740A	9.5	10	10.5	25	7	700	10	7.6	0.25	454	91
1N4741A	10.45	11	11.55	23	8	700	5	8.4	0.25	414	83
1N4742A	11.4	12	12.6	21	9	700	5	9.1	0.25	380	76
1N4743A	12.35	13	13.65	19	10	700	5	9.9	0.25	344	69
1N4744A	14.25	15	15.75	17	14	700	5	11.4	0.25	304	61
1N4745A	15.2	16	16.8	15.5	16	700	5	12.2	0.25	285	57
1N4746A	17.1	18	18.9	14	20	750	5	13.7	0.25	250	50
1N4747A	19	20	21	12.5	22	750	5	15.2	0.25	225	45
1N4748A	20.9	22	23.1	11.5	23	750	5	16.7	0.25	205	41
1N4749A	22.8	24	25.2	10.5	25	750	5	18.2	0.25	190	38
1N4750A	25.65	27	28.35	9.5	35	750	5	20.6	0.25	170	34
1N4751A	28.5	30	31.5	8.5	40	1000	5	22.8	0.25	150	30
1N4752A	31.35	33	34.65	7.5	45	1000	5	25.1	0.25	135	27
1N4753A	34.2	36	37.8	7	50	1000	5	27.4	0.25	125	25
1N4754A	37.05	39	40.95	6.5	60	1000	5	29.7	0.25	115	23
1N4755A	40.85	43	45.15	6	70	1500	5	32.7	0.25	110	22
1N4756A	44.65	47	49.35	5.5	80	1500	5	35.8	0.25	95	19
1N4757A	48.45	51	53.55	5	95	1500	5	38.8	0.25	90	18
1N4758A	53.2	56	58.8	4.5	110	2000	5	42.6	0.25	80	16
1N4759A	58.9	62	65.1	4	125	2000	5	47.1	0.25	70	14
1N4760A	64.6	68	71.4	3.7	150	2000	5	51.7	0.25	65	13
1N4761A	71.25	75	78.75	3.3	175	2000	5	56	0.25	60	12
1N4762A	77.9	82	86.1	3	200	3000	5	62.2	0.25	55	11
1N4763A	86.45	91	95.55	2.8	250	3000	5	69.2	0.25	50	10
1N4764A	95	100	105	2.5	350	3000	5	76	0.25	45	9

Ratings and Characteristic Curves

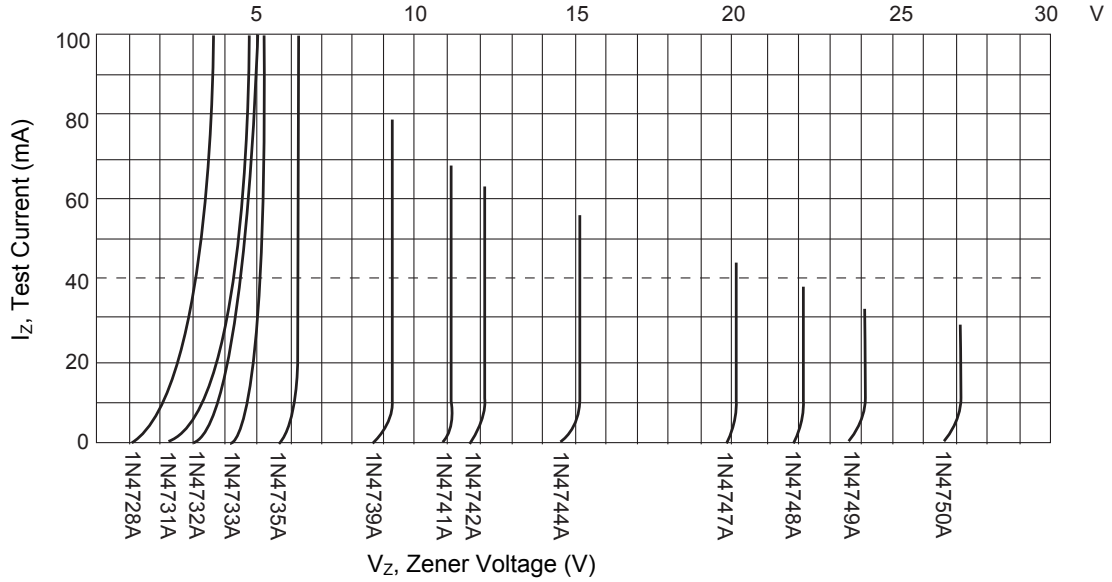

Figure 1. Breakdown Characteristics

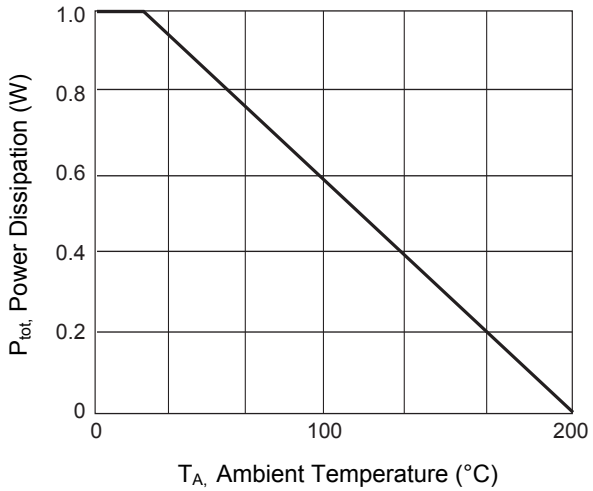

Figure 2. Admissible Power Dissipation vs. Ambient Temperature

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

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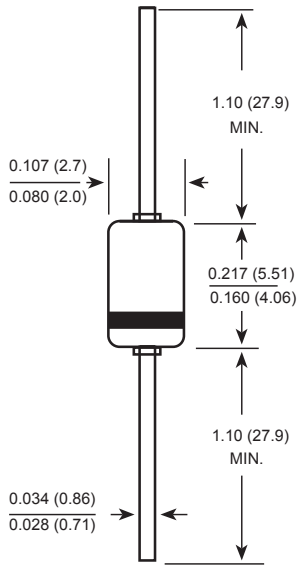
Package Outline Dimensions (DO-41 Glass)



Dimensions in Inches and (Millimeters)