HFZT

1N4728A-1N4764A

GLASS ZENER DIODES

VOLTAGE RANGE: 3.3--- 100V PEAK PULSE POWER:1000mW

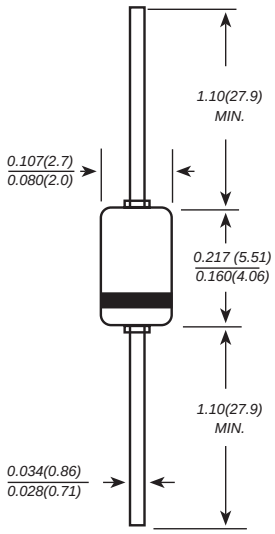
FEATURES

- Low Reverse Leakage
- Low Zener Impedance
- Glass passivated junction
- High Stability and High Reliability

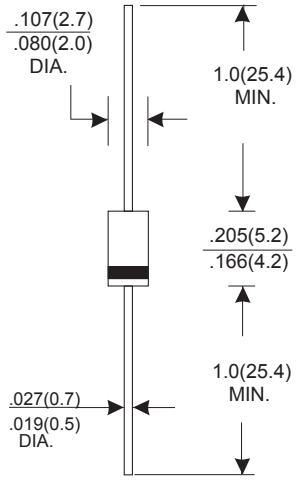
MECHANICAL DATA

- Case:DO-41(GLASS) molded glass body
- Polarity: Color band denotes cathode end
- Mounting Position: Any

DO-41G



DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25℃ambient temperature unless otherwise specified

Parameters	SYMBOLS	VALUE	UNITS
Power Dissipation	P_D	1000	mW
Junction Temperature	T_J	200	℃
Storage Temperature Range	T_{STG}	-55 to + 200	℃
Thermal resistance junction ambient(Note 1)	$R_{\Theta JA}$	0.3	K/mW
Forward voltage at I_F=200mA	V_F	1.1	V

Note 1: Valid provided that leads at a distance of 8mm from case are kept at ambient temperature

RATINGS AND CHARACTERISTIC CURVES

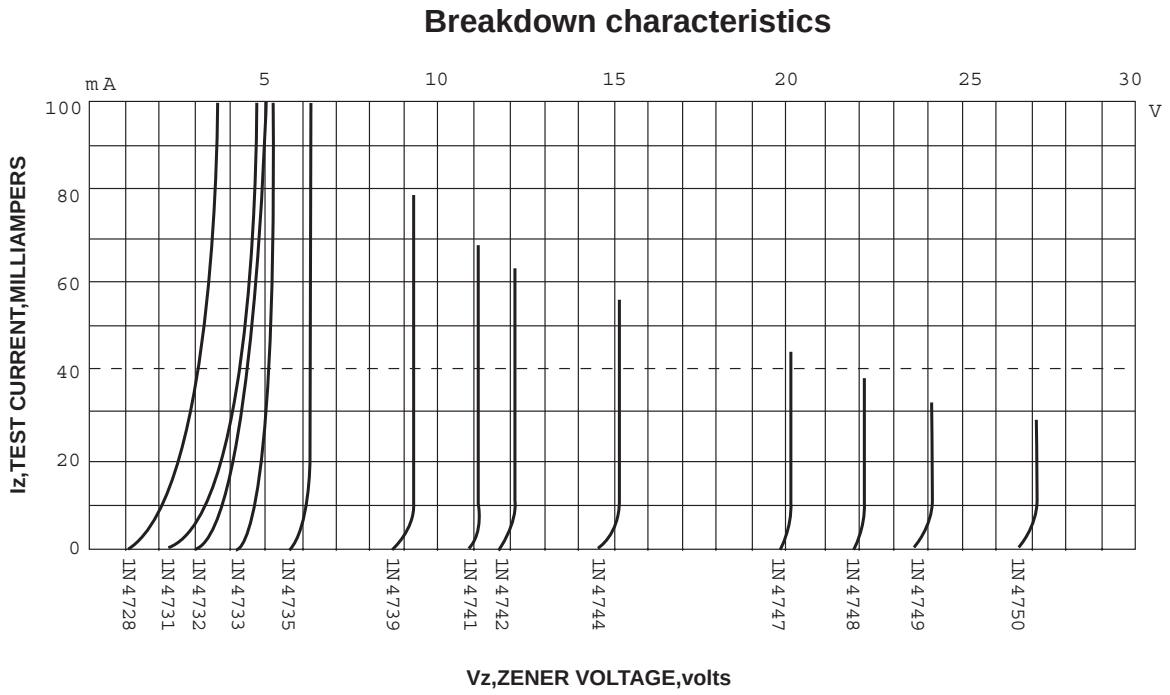
Electrical Specification (T_A=25°C unless otherwise specified)

Part Number	Nominal Zener voltage	Test current	Maximum dynamic impedance			Maximum reverse leakage current		Surge current	Maximum regulator current
	V_Z at I_{ZT}	I_{ZT}	Z_{ZT} at I_{ZT}	Z_{ZK} at I_{ZK}	I_{ZK}	IR	Test voltage V_R	at T_A=25℃ I_R	I_{ZM}
	V	mA	Ω	Ω	mA	μA	V	mA	mA
1N4728A	3.3	76	10	400	1	100	1	1380	276
1N4729A	3.6	69	10	400	1	100	1	1260	252
1N4730A	3.9	64	9	400	1	50	1	1190	234
1N4731A	4.3	58	9	400	1	10	1	1070	217
1N4732A	4.7	53	8	500	1	10	1	970	193
1N4733A	5.1	49	7	550	1	10	1	890	178
1N4734A	5.6	45	5	600	1	10	2	810	162
1N4735A	6.2	41	2	700	1	10	3	730	146
1N4736A	6.8	37	3.5	700	1	10	4	660	133
1N4737A	7.5	34	4	700	0.5	10	5	605	121
1N4738A	8.2	31	4.5	700	0.5	10	6	550	110
1N4739A	9.1	28	5	700	0.5	10	7	500	100
1N4740A	10	25	7	700	0.25	10	7.6	454	91
1N4741A	11	23	8	700	0.25	5	8.4	414	83
1N4742A	12	21	9	700	0.25	5	9.1	380	76
1N4743A	13	19	10	700	0.25	5	9.9	344	69
1N4744A	15	17	14	700	0.25	5	11.4	304	61
1N4745A	16	15.5	16	700	0.25	5	12.2	285	57
1N4746A	18	14	20	750	0.25	5	13.7	250	50
1N4747A	20	12.5	22	750	0.25	5	15.2	225	45
1N4748A	22	11.5	23	750	0.25	5	16.7	205	41
1N4749A	24	10.5	25	750	0.25	5	18.2	190	38
1N4750A	27	9.5	35	750	0.25	5	20.6	170	34
1N4751A	30	8.5	40	1000	0.25	5	22.8	150	30
1N4752A	33	7.5	45	1000	0.25	5	25.1	135	27
1N4753A	36	7	50	1000	0.25	5	27.4	125	25
1N4754A	39	6.5	60	1000	0.25	5	29.7	115	23
1N4755A	43	6	70	1500	0.25	5	32.7	110	22
1N4756A	47	5.5	80	1500	0.25	5	35.8	95	19
1N4757A	51	5	95	1500	0.25	5	38.8	90	18
1N4758A	56	4.5	110	2000	0.25	5	42.6	80	16
1N4759A	62	4	125	2000	0.25	5	47.1	70	14
1N4760A	68	3.7	150	2000	0.25	5	51.7	65	13
1N4761A	75	3.3	175	2000	0.25	5	56	60	12
1N4762A	82	3.0	200	3000	0.25	5	62.2	55	11
1N4763A	91	2.8	250	3000	0.25	5	69.2	50	10
1N4764A	100	2.5	350	3000	0.25	5	76.0	45	9

Note 1: VF=1.2V@IF=200mA,Tolerance of zener voltage:±10%,suffix "A" for±5%,suffix "C" for±2%,suffix "D" for±1%

RATINGS AND CHARACTERISTIC CURVES

FIG1: Admissible Power Dissipation vs. Ambient Temperat



Admissible power dissipation versus ambient temperature

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