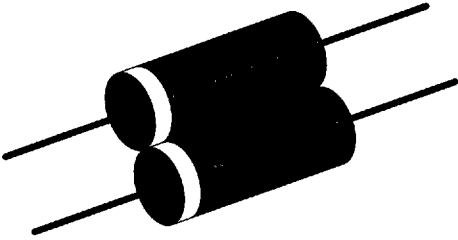


1N4728...64 Series

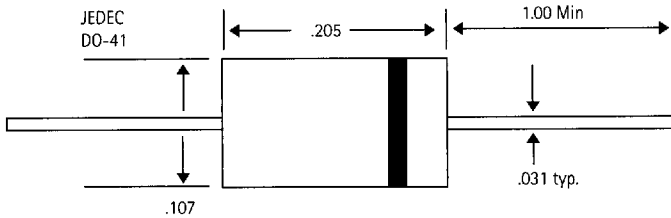
1 Watt Zener Diodes (3.3V to 100V)

Description



Mechanical Dimensions

all dimensions in inches



Features:

- Wide Voltage Range
- 5 Et 10% Voltage Tolerances Available
- Meets or exceeds UL Flammability Specification 94V-0

Ratings

P_D	DC Power Dissipation with $T_I = \geq 75^\circ\text{C}$	1 W
	Lead length = .375 inches	
	Derate above 50°C	6.67 mW/ $^\circ\text{C}$
T_j	Operating temperature	-65 to +100 degC
T_{stg}	Storage temperature range	-65 to +100 degC

■ 5607013 0000973 377 ■

1N4728...64 Series

Device	Nominal Zener Voltage	Test Current Izt Max	Max Zener Impedance			Leakage current		Surge Current
			Zzt @ Izt Ohms	Izt @ Zzt Ohms	Izt mA	Ir (uA)	Vr	A
1N4728	3.3	76	10	400	1	100	1	1380
1N4729	3.6	69	10	400	1	100	1	1260
1N4730	3.9	64	9	400	1	50	1	1190
1N4731	4.3	58	9	400	1	10	1	1070
1N4732	4.7	53	8	500	1	10	1	970
1N4733	5.1	49	7	550	1	10	1	890
1N4734	5.6	45	5	600	1	10	2	810
1N4735	6.2	41	2	700	1	10	3	730
1N4736	7.5	37	3.5	700	1	10	4	660
1N4737	8.2	34	4	700	0.5	10	5	605
1N4738	6.0	31	4.5	700	0.5	10	6	550
1N4739	9.1	28	5	700	0.5	10	7	500
1N4740	10	25	7	700	0.25	10	7.6	454
1N4741	11	23	8	700	0.25	5	8.4	414
1N4742	12	21	9	700	0.25	5	9.1	380
1N4743	13	19	10	700	0.25	5	9.9	344
1N4744	15	17	14	700	0.25	5	11.4	304
1N4745	16	15.5	16	700	0.25	5	12.2	285
1N4746	18	14	20	750	0.25	5	13.7	250
1N4747	20	12.5	22	750	0.25	5	15.2	225
1N4748	22	11.5	23	750	0.25	5	16.7	205
1N4749	24	10.5	25	750	0.25	5	18.2	190
1N4750	27	9.5	35	750	0.25	5	20.6	170
1N4751	30	8.5	40	1000	0.25	5	22.8	150
1N4752	33	7.5	45	1000	0.25	5	25.1	135
1N4753	36	7.0	50	1500	0.25	5	27.4	125
1N4754	39	6.5	60	1500	0.25	5	29.7	115
1N4755	43	6.0	70	1500	0.25	5	32.7	110
1N4756	47	5.5	80	1500	0.25	5	35.8	95
1N4757	51	5.0	95	1500	0.25	5	38.8	90
1N4758	56	4.5	110	2000	0.25	5	42.6	80
1N4759	62	4.0	125	2000	0.25	5	47.1	70
1N4760	68	3.7	150	2000	0.25	5	51.7	65
1N4761	75	3.3	175	2000	0.25	5	56	60
1N4762	82	3.0	200	3000	0.25	5	62.2	55
1N4763	91	2.8	250	3000	0.25	5	69.2	50
1N4764	100	2.5	350	3000	0.25	5	76	45

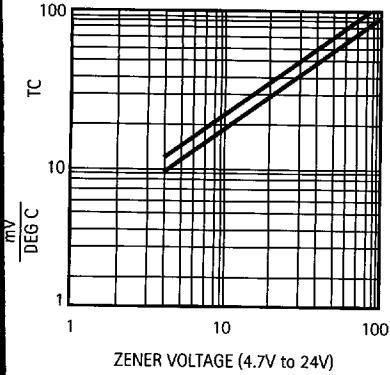
Notes:

- For 10% tolerance on Zener Voltage, specify no suffix. For 5% tolerance, specify "A"
Eg. 1N4728A = 3.3V +/- 5%
- Ta = 25°C unless otherwise specified. Measurements made at thermal equilibrium.
Lead length = .375". Thermal resistance of Heat Sink = 30°C/W, Vf = 1.1V max/ @ If = 200 mA

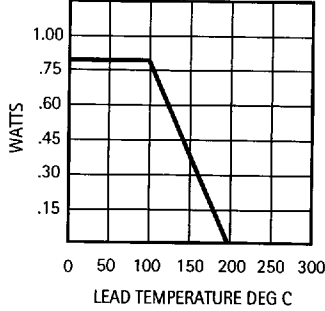
1N4728...64 Series

1N4728...64 Series

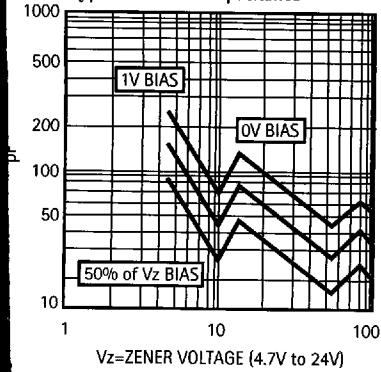
Temperature Coefficient vs Voltage



Steady State Power Derating



Typical Junction Capacitance



Zener Current vs Zener Voltage Vz = 4.7 to 30 V

