



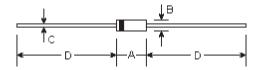
SILICON PLANAR POWER ZENER DIODES

Features

Silicon Planar Power Zener Diodes

for use in stabilizing and clipping circuits with high power rating. Standard Zener voltage tolerance is \pm 10%. Add suffix "A" for \pm 5% tolerance. Other tolerances available upon request.

DO-41



DIMENSIONS							
DIM	incl	nes	m	Note			
	Min.	Max.	Min.	Max.	Note		
Α	-	0.169	-	4.3			
В	-	0.110	-	2.8	ф		
С	-	0.031	-	0.8	ф		
D	1.102	-	28.0	-			

Absolute Maximum Ratings (T_a=25°C)

	Symbols	Values	Units
Zener current see Table "Characteristics"			
Power dissipation at $\rm T_{amb} = 25^{\circ}C$	P _{tot}	1 ¹⁾	W
Junction temperature	T_{j}	200	$^{\circ}$
Storage temperature range	T _s	-65 to +200	°C

Note:

Characteristics at T_{amb}=25℃

	Symbols	Min.	Тур.	Max.	Units
Thermal resistance junction to ambient Air	R _{thA}	-	-	170 ¹)	K/W
Forward voltage at I _F =200mA	V _F	-	-	1.2	V

Note:

 $^{(1) \ \} Valid \ provided \ that \ leads \ at \ a \ distance \ of \ 8 \ mm \ from \ case \ are \ kept \ at \ ambient \ temperature.$

⁽¹⁾ Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

_	Zener voltage range 3)		Maximum Zener Impedance 1)			Reverse leakage current		Surge current at T _A =25°C	Maximum regulator current 2)
Туре	V _{znom}	I _{zt}	$r_{z_{jT}}$ and $r_{z_{jk}}$ at $l_{z_{K}}$			I _R at V _R		I _R	I _{zm}
ļ ļ	V	mA	Ω	Ω	mA	uA	V	mA	mA
1N4728	3.3	76	10	400	1.0	150	1	1375	275
1N4729	3.6	69	10	400	1.0	100	1	1260	252
1N4730	3.9	64	9	400	1.0	100	1	1190	234
1N4731	4.3	58	9	400	1.0	50	1	1070	217
1N4732	4.7	53	8	500	1.0	10	1	970	193
1N4733	5.1	49	7	550	1.0	10	1	890	178
1N4734	5.6	45	5	600	1.0	10	2	810	162
1N4735	6.2	41	2	700	1.0	10	3	730	146
1N4736	6.8	37	3.5	700	1.0	10	4	660	133
1N4737	7.5	34	4.0	700	0.5	10	5	605	121
1N4738	8.2	31	4.5	700	0.5	10	6	550	110
1N4739	9.1	28	5.0	700	0.5	10	7	500	100
1N4740	10	25	7	700	0.25	10	7.6	454	91
1N4741	11	23	8	700	0.25	5	8.4	414	83
1N4742	12	21	9	700	0.25	5	9.1	380	76
1N4743	13	19	10	700	0.25	5	9.9	344	69
1N4744	15	17	14	700	0.25	5	11.4	304	61
1N4745	16	15.5	16	700	0.25	5	12.2	285	57
1N4746	18	14	20	750	0.25	5	13.7	250	50
1N4747	20	12.5	22	750	0.25	5	15.2	225	45
1N4748	22	11.5	23	750	0.25	5	16.7	205	41
1N4749	24	10.5	25	750	0.25	5	18.2	190	38
1N4750	27	9.5	35	750	0.25	5	20.6	170	34
1N4751	30	8.5	40	1000	0.25	5	22.8	150	30
1N4752	33	7.5	45	1000	0.25	5	25.1	135	27
1N4753	36	7.0	50	1000	0.25	5	27.4	125	25
1N4754	39	6.5	60	1000	0.25	5	29.7	115	23
1N4755	43	6.0	70	1500	0.25	5	32.7	110	22
1N4756	47	5.5	80	1500	0.25	5	35.8	95	19
1N4757	51	5.0	95	1500	0.25	5	38.8	90	18
1N4758	56	4.5	110	2000	0.25	5	42.6	80	16
1N4759	62	4.0	125	2000	0.25	5	47.1	70	14
1N4760	68	3.7	150	2000	0.25	5	51.7	65	13
1N4761	75	3.3	175	2000	0.25	5	56.0	60	12
1N4762	82	3.0	200	3000	0.25	5	62.2	55	11
1N4763	91	2.8	250	3000	0.25	5	69.2	50	10
1N4764	100	2.5	350	3000	0.25	5	76.0	45	9

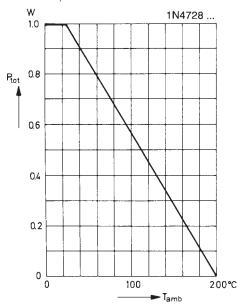
Notes:

- (1) The Zener Impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{zT} or I_{zX}) is superimposed on I_{zT} or I_{zX}. Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.
- (2) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.
- (3) Measured under thermal equilibrium and DC test conditions.

RATINGS AND CHARACTERISTIC CURVES

Admissible power dissipation versus ambient temperature

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



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