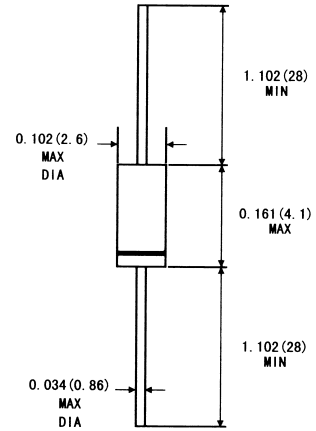


**FEATURES**

- . Silicon planar power zener diodes
- For use in stabilizing and clipping circuits with high power rating.
- . Standards Zener voltage toerance is  $\pm 10\%$
- Add suffix "A" for  $\pm 5\%$  tolerance Other tolerance available upon request

**DO-41(GLASS)**



Dimensions in inches and (millimeters)

**MECHANICAL DATA**

- . **Case:** DO-41 glass case
- . **weight:** Approx. 0.35 gram

**ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES)(TA=25°C)**

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=25°C	P <sub>tot</sub>	1 1)	mW
Junction temperature	T <sub>J</sub>	175	°C
Storage temperature range	T <sub>STG</sub>	-65 to +175	°C

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

**ELECTRCAL CHARACTERISTICS(TA=25°C)**

	Symbols	Min	Typ	Max	Units
Thermal resistance junction to ambient	R <sub>thA</sub>			170 1)	°C/W
Forward voltage at IF=200mA	V <sub>F</sub>			1.2	V

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

### 1N4728..1N4764 SILICON PLANAR ZENER DIODES

Type	Nominal Zener Voltage <sup>3)</sup>	Test Current	Maximum Zener Impedance <sup>1)</sup>			Maximum reverse leakage current		Surge current	Maximum regulator Current <sup>2)</sup>
	at $I_{ZT}$ $V_Z$ V	$I_{ZT}$ mA	at $I_{ZT}$ $Z_{ZT}$ $\Omega$	$Z_{ZK}$ $\Omega$	at $I_{ZK}$ mA	$I_R$ $\mu$ A	at $V_R$ V	at $T_A=0.25$ $I_R$ mA	$I_{ZM}$ mA
1N4728	3.3	76	10	400	1.0	100	1.0	1380	276
1N4729	3.6	69	10				1.0	1260	252
1N4730	3.9	64	9				1.0	1190	234
1N4731	4.3	58	9	500		10	1.0	1070	217
1N4732	4.7	53	8				1.0	970	193
1N4733	5.1	49	7				1.0	890	178
1N4734	5.6	45	5	600			2.0	810	162
1N4735	6.2	41	2				3.0	730	146
1N4736	6.8	37	3.5				4.0	660	133
1N4737	7.5	34	4.0	700			5.0	5.0	605
1N4738	8.2	31	4.5		6.0			550	110
1N4739	9.1	28	5.0		7.0			500	100
1N4740	10	25	7	0.25	5			7.6	454
1N4741	11	23	8			8.4		414	83
1N4742	12	21	9			9.1		380	76
1N4743	13	19	10			9.9		344	69
1N4744	15	17	14			11.4		304	61
1N4745	16	15.5	16			12.2		285	57
1N4746	18	14	20			13.7		250	50
1N4747	20	12.5	22			15.2	225	45	
1N4748	22	11.5	23			16.7	205	41	
1N4749	24	10.5	25			18.2	190	38	
1N4750	27	9.5	35	20.6	170	34			
1N4751	30	8.5	40	1000	22.8	150	30		
1N4752	33	7.5	45		25.1	135	27		
1N4753	36	7.0	50		27.4	125	25		
1N4754	39	6.5	60	1500	29.7	115	23		
1N4755	43	6.0	70		32.7	110	22		
1N4756	47	5.5	80		35.8	95	19		
1N4757	51	5.0	95	2000	38.8	90	18		
1N4758	56	4.5	110		42.6	80	16		
1N4759	62	4.0	125		47.1	70	14		
1N4760	68	3.7	150	3000	51.7	65	13		
1N4761	75	3.3	175		56.0	60	12		
1N4762	82	3.0	200		62.2	55	11		
1N4763	91	2.8	250	69.2	50	10			
1N4764	100	2.5	350	76.0	45	9			

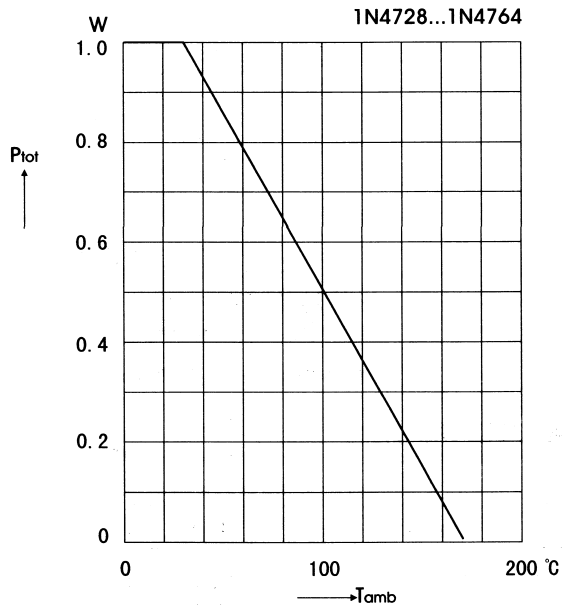
Notes:1) The Zener impedance is derived from the 1KHz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current( $I_{ZT}$  or  $I_{ZK}$ ) is superimposed on  $I_{ZT}$  or  $I_{ZK}$ . Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

2)Valid provided that electrodes at a distance of 10mm from case are kept at ambient temperature

3)Measured under thermal equilibrium and DC test conditions.

**RATINGS AND CHARACTERISTIC CURVES 1N4728 THRU 1N4764**

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



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