

1N4728A THRU 1N4764A

SILICON ZENER DIODES  
1.0 WATT, 3.3 THRU 100 VOLT  
5% TOLERANCE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N4728A series silicon Zener diode is a highly reliable voltage regulator designed for use in industrial, commercial, entertainment and computer applications.

MARKING: FULL PART NUMBER



DO-41 CASE

MAXIMUM RATINGS:

Power Dissipation ( $T_A=50^\circ\text{C}$ )  
Operating and Storage Temperature

SYMBOL

$P_D$   
 $T_J, T_{stg}$

UNITS

W  
 $^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ( $T_A=25^\circ\text{C}$ )  $V_F=1.2\text{V MAX @ } I_F=200\text{mA}$  (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT $I_{ZT}$	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT $I_{ZM}$	MAXIMUM TEMPERATURE COEFFICIENT $@ I_{ZT}$
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$				
	V	V	V		mA	$\Omega$	$\Omega$	mA	$\mu\text{A}$		
1N4728A	3.135	3.3	3.465	76	10	400	1.0	100	1.0	1380	-0.08 to -0.05
1N4729A	3.420	3.6	3.780	69	10	400	1.0	100	1.0	1260	-0.08 to -0.05
1N2730A	3.705	3.9	4.095	64	9.0	400	1.0	50	1.0	1190	-0.07 to -0.02
1N4731A	4.085	4.3	4.515	58	9.0	400	1.0	10	1.0	1070	-0.07 to -0.01
1N4732A	4.465	4.7	4.935	53	8.0	500	1.0	10	1.0	970	-0.03 to +0.04
1N4733A	4.845	5.1	5.355	49	7.0	550	1.0	10	1.0	890	-0.01 to +0.04
1N4734A	5.320	5.6	5.880	45	5.0	600	1.0	10	2.0	810	0 to +0.045
1N4735A	5.890	6.2	6.510	41	2.0	700	1.0	10	3.0	730	+0.01 to +0.055
1N4736A	6.460	6.8	7.140	37	3.5	700	1.0	10	4.0	660	+0.015 to +0.06
1N4737A	7.125	7.5	7.875	34	4.0	700	0.5	10	5.0	605	+0.02 to +0.065
1N4738A	7.790	8.2	8.610	31	4.5	700	0.5	10	6.0	550	+0.03 to +0.07
1N4739A	8.645	9.1	9.555	28	5.0	700	0.5	10	7.0	500	+0.035 to +0.075
1N4740A	9.500	10	10.50	25	7.0	700	0.25	10	7.6	454	+0.04 to +0.08
1N4741A	10.45	11	11.55	23	8.0	700	0.25	5.0	8.4	414	+0.045 to +0.08
1N4742A	11.40	12	12.60	21	9.0	700	0.25	5.0	9.1	380	+0.045 to +0.085
1N4743A	12.35	13	13.65	19	10	700	0.25	5.0	9.9	344	+0.05 to +0.085
1N4744A	14.25	15	15.75	17	14	700	0.25	5.0	11.4	304	+0.055 to +0.09
1N4745A	15.20	16	16.80	15.5	16	700	0.25	5.0	12.2	285	+0.055 to +0.09
1N4746A	17.10	18	18.90	14	20	750	0.25	5.0	13.7	250	+0.06 to +0.09
1N4747A	19.00	20	21.00	12.5	22	750	0.25	5.0	15.2	225	+0.06 to +0.09
1N4748A	20.90	22	23.10	11.5	23	750	0.25	5.0	16.7	205	+0.06 to +0.095
1N4749A	22.80	24	25.20	10.5	25	750	0.25	5.0	18.2	190	+0.06 to +0.095
1N4750A	25.65	27	28.35	9.5	35	750	0.25	5.0	20.6	170	+0.06 to +0.095

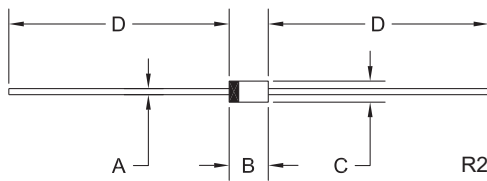
**1N4728A THRU 1N4764A**  
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**ELECTRICAL CHARACTERISTICS - Continued:** ( $T_A=25^\circ\text{C}$ )  $V_F=1.2\text{V MAX @ } I_F=200\text{mA}$  (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT	MAXIMUM TEMPERATURE COEFFICIENT @ $I_{ZT}$	
	MIN	NOM	MAX		$I_{ZT}$ mA	$Z_{ZT} @ I_{ZT}$ $\Omega$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$ $\mu\text{A}$			$V_R$ V
	V	V	V				$\Omega$	mA				
1N4751A	28.50	30	31.50	8.5	40	1.0K	0.25	5.0	22.8	150	+0.06 to +0.095	
1N4752A	31.35	33	34.65	7.5	45	1.0K	0.25	5.0	25.1	135	+0.06 to +0.095	
1N4753A	34.20	36	37.80	7.0	50	1.0K	0.25	5.0	27.4	125	+0.06 to +0.095	
1N4754A	37.05	39	40.95	6.5	60	1.0K	0.25	5.0	29.7	115	+0.06 to +0.095	
1N4755A	40.85	43	45.15	6.0	70	1.5K	0.25	5.0	32.7	110	+0.06 to +0.095	
1N4756A	44.65	47	49.35	5.5	80	1.5K	0.25	5.0	35.8	95	+0.06 to +0.095	
1N4757A	48.45	51	53.55	5.0	95	1.5K	0.25	5.0	38.8	90	+0.06 to +0.095	
1N4758A	53.20	56	58.80	4.5	110	2.0K	0.25	5.0	42.6	80	+0.06 to +0.095	
1N4759A	58.90	62	65.10	4.0	125	2.0K	0.25	5.0	47.1	70	+0.06 to +0.095	
1N4760A	64.60	68	71.40	3.7	150	2.0K	0.25	5.0	51.7	65	+0.06 to +0.095	
1N4761A	71.25	75	78.75	3.3	175	2.0K	0.25	5.0	56.0	60	+0.06 to +0.095	
1N4762A	77.90	82	86.10	3.0	200	3.0K	0.25	5.0	62.2	55	+0.06 to +0.095	
1N4763A	86.45	91	95.55	2.8	250	3.0K	0.25	5.0	69.2	50	+0.06 to +0.095	
1N4764A	95.00	100	105.0	2.5	350	3.0K	0.25	5.0	76.0	45	+0.06 to +0.095	

**DO-41 CASE - MECHANICAL OUTLINE**



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.026	0.034	0.65	0.86
B	0.138	0.205	3.50	5.21
C	0.079	0.107	2.00	2.72
D	1.000	-	25.40	-

DO-41 (REV: R2)

R2 (14-October 2013)

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