

## Zeners 1N4728A - 1N4764A

### Absolute Maximum Ratings \* $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation @ $T_L \leq 50^\circ\text{C}$ , Lead Length = 3/8"	1.0	W
	Derate above $50^\circ\text{C}$	6.67	mW/ $^\circ\text{C}$
$T_J, T_{STG}$	Operating and Storage Temperature Range	-65 to +200	$^\circ\text{C}$

\* These ratings are limiting values above which the serviceability of the diode may be impaired.

Tolerance = 5%



### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Device	$V_Z$ (V) @ $I_Z$ (Note 1)	Test Current $I_Z$ (mA)	Max. Zener Impedance			Leakage Current	
			$Z_Z$ @ $I_Z$ ( $\Omega$ )	$Z_{ZK}$ @ $I_{ZK}$ ( $\Omega$ )	$I_{ZK}$ (mA)	$I_R$ ( $\mu\text{A}$ )	$V_R$ (V)
1N4728A	3.3	76	10	400	1	100	1
1N4729A	3.6	69	10	400	1	100	1
1N4730A	3.9	64	9	400	1	50	1
1N4731A	4.3	58	9	400	1	10	1
1N4732A	4.7	53	8	500	1	10	1
1N4733A	5.1	49	7	550	1	10	1
1N4734A	5.6	45	5	600	1	10	2
1N4735A	6.2	41	2	700	1	10	3
1N4736AT	6.8	37	3.5	700	1	10	4
1N4737AT	7.5	34	4	700	0.5	10	5
1N4738AT	8.2	31	4.5	700	0.5	10	6
1N4739AT	9.1	28	5	700	0.5	10	7
1N4740AT	10	25	7	700	0.25	10	7.6
1N4741AT	11	23	8	700	0.25	5	8.4
1N4742AT	12	21	9	700	0.25	5	9.1
1N4743AT	13	19	10	700	0.25	5	9.9
1N4744AT	15	17	14	700	0.25	5	11.4
1N4745AT	16	15.5	16	700	0.25	5	12.2
1N4746AT	18	14	20	750	0.25	5	13.7
1N4747AT	20	12.5	22	750	0.25	5	15.2
1N4748A	22	11.5	23	750	0.25	5	16.7
1N4749A	24	10.5	25	750	0.25	5	18.2
1N4750A	27	9.5	35	750	0.25	5	20.6
1N4751A	30	8.5	40	1000	0.25	5	22.8
1N4752A	33	7.5	45	1000	0.25	5	25.1
1N4753A	36	7	50	1000	0.25	5	27.4
1N4754A	39	6.5	60	1000	0.25	5	29.7
1N4755A	43	6	70	1500	0.25	5	32.7
1N4756A	47	5.5	80	1500	0.25	5	35.8
1N4757A	51	5	95	1500	0.25	5	38.8

**Electrical Characteristics** (Continued)  $T_A=25^\circ\text{C}$  unless otherwise noted

Device	$V_Z$ (V) @ $I_Z$ (Note 1)	Test Current $I_Z$ (mA)	Max. Zener Impedance			Leakage Current	
			$Z_Z$ @ $I_Z$ ( $\Omega$ )	$Z_{ZK}$ @ $I_{ZK}$ ( $\Omega$ )	$I_{ZK}$ (mA)	$I_R$ ( $\mu\text{A}$ )	$V_R$ (V)
1N4758A	56	4.5	110	2000	0.25	5	42.6
1N4759A	62	4	125	2000	0.25	5	47.1
1N4760A	68	3.7	150	2000	0.25	5	51.7
1N4761A	75	3.3	175	2000	0.25	5	56
1N4762A	82	3	200	3000	0.25	5	62.2
1N4763A	91	2.8	250	3000	0.25	5	69.2
1N4764A	100	2.5	350	3000	0.25	5	76

 **$V_F$  Forward Voltage = 1.2V Max @  $I_F = 200\text{mA}$** **Notes:**1. Zener Voltage ( $V_Z$ )The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature ( $T_L$ ) at  $30^\circ\text{C} \pm 1^\circ\text{C}$  and 3/8" lead length.

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