

ZENER DIODES, 5 WATTS, DO-201AE PLASTIC PACKAGE

JEDEC Part Number	Nominal Zener Voltage at I_{ZT}	Zener Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current at $T_J = 25^\circ\text{C}$		Max Zener Current	Max Surge Current	Typical Temp. Coeff.	Outline inches/millimeters
			Zener	Knee	V_R	I_R				
			at I_{ZT} (mA)	at $I_{ZK}=1.0\text{mA}$	(Volts)	(μA)				
1N5968	5.6	220	1.0	400	4.28	5000	865	20	.04	<p>All Dimensions in $\frac{\text{inch}}{\text{mm}}$</p> <p>DO-201AE</p> <p>FEATURES</p> <ul style="list-style-type: none"> ■ Zener Voltages 5.6 to 390 Volts ■ High Surge Current capability ■ Transfer Molded Package <p>MAXIMUM RATINGS</p> <p>Operating Temperature: -65°C to $+175^\circ\text{C}$ Storage Temperature: -65°C to $+200^\circ\text{C}$ DC Power Dissipation: 15 Watts at $T_J = 50^\circ\text{C}$</p> <p>Note 1: The JEDEC type numbers shown with no suffix have a $\pm 20\%$ tolerance on nominal zener voltage. A Suffix = $\pm 10\%$, B = $\pm 5\%$, C = $\pm 2\%$, D = $\pm 1\%$</p> <p>Note 2: Special selection of Zener Voltage and/or Matched Characteristics available on request.</p> <p>Note 3: $I_{ZM} = 5 \text{ Watt}/V_{Z(\text{Nom})}$ - Tolerance</p> <p>Note 4: Z_{ZT} and Z_{ZK} impedances are derived from the 1kHz voltage created when an AC current with RMS value of $\pm 10\%$ of DC zener test current is superimposed on the test current.</p>
1N5969	6.2	220	1.0	1000	4.74	1000	765	20	.04	
1N4954	6.8	175	1.0	1000	5.2	150	700	40	.05	
1N4955	7.5	175	1.5	800	5.7	100	630	32	.05	
1N4956	8.2	150	1.5	600	6.2	50	580	24	.06	
1N4957	9.1	150	2.0	400	6.9	25	520	22	.06	
1N4958	10	125	2.0	125	7.6	25	475	20	.07	
1N4959	11	125	2.5	130	8.4	10	430	19	.07	
1N4960	12	100	2.5	140	9.1	10	395	18	.07	
1N4961	13	100	3.0	145	9.9	10	365	16	.08	
1N4962	15	75	3.5	150	11.4	5	315	12	.08	
1N4963	16	75	3.5	155	12.2	5	294	10	.08	
1N4964	18	65	4.0	160	13.7	5	264	9.0	.085	
1N4965	20	65	4.5	165	15.2	2	237	8.0	.085	
1N4966	22	50	5.0	170	16.7	2	216	7.0	.085	
1N4967	24	50	5.0	175	18.2	2	198	6.6	.090	
1N4968	27	50	6.0	180	20.6	2	176	6.0	.090	
1N4969	30	40	8	190	22.8	2	158	5.5	.090	
1N4970	33	40	10	200	25.1	2	144	5.0	.095	
1N4971	36	30	11	220	27.4	2	132	4.5	.095	
1N4972	39	30	14	230	29.7	2	122	4.0	.095	
1N4973	43	30	20	240	32.7	2	110	3.5	.095	
1N4974	47	25	25	250	35.8	2	100	3.2	.095	
1N4975	51	25	27	270	38.8	2	92	3.0	.095	
1N4976	56	20	35	320	42.6	2	84	2.8	.095	
1N4977	62	20	42	400	47.1	2	76	2.5	.100	
1N4978	68	20	50	500	51.7	2	70	2.2	.100	
1N4979	75	20	55	620	56.0	2	63	2.0	.100	
1N4980	82	15	80	720	62.2	2	58	1.8	.100	
1N4981	91	15	90	760	69.2	2	52.5	1.6	.100	
1N4982	100	12	110	800	76.0	2	47.5	1.4	.100	
1N4983	110	12	125	1000	83.6	2	43.0	1.2	.100	
1N4984	120	10	170	1150	91.2	2	39.5	1.00	.100	
1N4985	130	10	190	1250	98.8	2	36.6	0.80	.105	
1N4986	150	8	330	1500	114.0	2	31.6	0.75	.105	
1N4987	160	8	350	1650	121.6	2	29.4	0.70	.105	
1N4988	180	5	450	1750	136.8	2	26.4	0.60	.110	
1N4989	200	5	500	1850	152	2	23.6	0.50	.110	
1N4990	220	5	550	2000	167	2	21.6	0.50	.115	
1N4991	240	5	650	2050	182	2	19.8	0.40	.115	
1N4992	270	5	800	2100	206	2	17.5	0.35	.120	
1N4993	300	4	950	2150	228	2	15.6	0.30	.120	
1N4994	330	4	1175	2200	251	2	14.4	0.25	.120	
1N4995	360	3	1400	2300	274	2	13.0	0.22	.120	
1N4996	390	3	1800	2500	297	2	12.0	0.20	.120	