D I G I T R O N S E M I C O N D U C T O R S

UZ4706 SERIES
UZ4806 SERIES

5 WATT POWER ZENERS

MAXIMUM RATINGS

Zener Voltage, V_Z	6.8 to 200 V
Storage and Operating Temperature	-65 to +175°C

ELECTRICAL CHARACTERISTICS

TYPE		ELECTRICAL SPECIFICATIONS @ 25°c							MAXIMUM RATINGS	
		Nominal Zener Voltage †	Test Current	Max. Zener Impedance §		Reverse Voltage			Maximum Continuous Current	Maximum Surge Current ‡
						Maximum Leakage Current @ Reverse Voltage				
		V_Z @ I_{ZT}	I_{ZT}	Z_Z @ I_{ZT}	Z_{ZK} @ I_{ZK} = 1mA	I_R @ V_R	±10% V_R	±5% V_R	I_{ZM}	I_S
±5% Tolerance	±10% Tolerance	Volts	mA	Ohms	Ohms	µA	Volts	Volts	mA	Amps
UZ4706	**UZ4806**	6.8	175	1	1000	500	4.9	5.2	675	32
UZ4707	**UZ4807**	7.5	175	1.5	800	400	5.4	5.7	620	26.5
UZ4708	**UZ4808**	8.2	150	1.5	600	200	5.9	6.2	570	19.2
UZ4709	**UZ4809**	9.1	150	2	400	100	6.6	6.9	510	17.6
UZ4710	**UZ4810**	10	125	2	125	75	7.2	7.6	470	16
UZ4712	**UZ4812**	12	100	2.5	140	50	8.6	9.1	385	14.4
UZ4713	**UZ4813**	13	100	3	145	25	9.3	9.9	350	12.8
UZ4715	**UZ4815**	15	75	3.5	150	15	10.8	11.4	300	9.6
UZ4716	**UZ4816**	16	75	3.5	155	10	11.5	12.2	275	8
UZ4718	**UZ4818**	18	65	4	160	10	12.9	13.7	255	7.2
UZ4720	**UZ4820**	20	65	4.5	165	10	14.4	15.2	220	6.4
UZ4722	**UZ4822**	22	50	5	170	10	15.8	16.7	195	5.6
UZ4724	**UZ4824**	24	50	5	175	10	17.3	18.2	180	5.2
UZ4727	**UZ4827**	27	50	6	180	10	19.4	20.6	155	4.8
UZ4730	**UZ4830**	30	40	8	190	10	21.6	22.8	140	4.4
UZ4733	**UZ4833**	33	40	10	200	5	23.7	25.1	130	4.0
UZ4736	**UZ4836**	36	30	11	220	5	25.9	27.4	120	3.6
UZ4739	**UZ4839**	39	30	14	230	5	28.1	29.7	105	3.2
UZ4743	**UZ4843**	43	30	20	240	5	31	32.7	100	2.8
UZ4747	**UZ4847**	47	25	25	250	5	33.8	35.8	96	2.6
UZ4751	**UZ4851**	51	25	27	270	5	36.7	38.8	85	2.4
UZ4756	**UZ4856**	56	20	35	320	5	40.3	42.6	81	2.2
UZ4762	**UZ4862**	62	20	42	400	5	44.6	47.1	73	2.0
UZ4768	**UZ4868**	68	20	50	500	5	49.0	51.7	61	1.8
UZ4775	**UZ4875**	75	20	55	620	5	54.0	56	60	1.6
UZ4782	**UZ4882**	82	15	80	720	5	59.0	62.2	55	1.4
UZ4791	**UZ4891**	91	15	90	760	5	65.5	69.2	50	1.3
UZ4110	**UZ4210**	100	12	100	800	5	72.0	76.0	45	1.1
UZ4111	**UZ4211**	110	12	125	1000	5	79.2	83.6	40	1.0
UZ4112	**UZ4212**	120	10	170	1150	5	86.4	91.2	38	.8
UZ4113	**UZ4213**	130	10	190	1250	5	93.6	98.8	35	.64
UZ4115	**UZ4215**	150	8	330	1500	5	108	114.0	31	.60
UZ4116	**UZ4216**	160	8	350	1650	5	115	121.6	30	.56

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UZ4706 SERIES
UZ4806 SERIES

5 WATT POWER ZENERS

ELECTRICAL CHARACTERISTICS

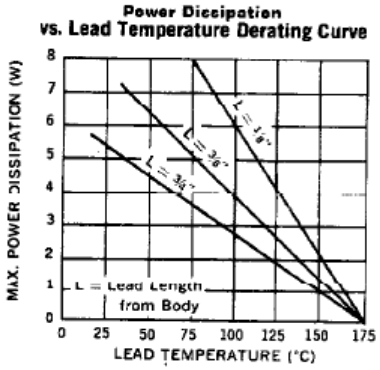
TYPE		ELECTRICAL SPECIFICATIONS @ 25°c							MAXIMUM RATINGS	
		Nominal Zener Voltage †	Test Current	Max. Zener Impedance §		Reverse Voltage			Maximum Continuous Current *	Maximum Surge Current ǂ
						Maximum Leakage Current @ Reverse Voltage				
		V_Z @ I_{ZT}	I_{ZT}	Z_Z @ I_{ZT}	Z_{ZK} @ I_{ZK} = 1mA	I_R @ V_R	+/- 5% V_R	+/-10% V_R	I_{ZM}	I_S
±5% Tolerance	±10% Tolerance	Volts	mA	Ohms	Ohms	µA	Volts	Volts	mA	Amps
UZ4118	UZ4218	180	5	450	1750	5	129	136.8	25	.48
UZ4120	UZ4220	200	5	500	1850	5	144	152.0	22	.40

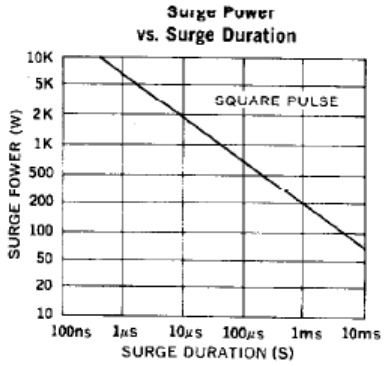
Maximum V_F @ 1.0 Amp = 1.2 Volts for all types

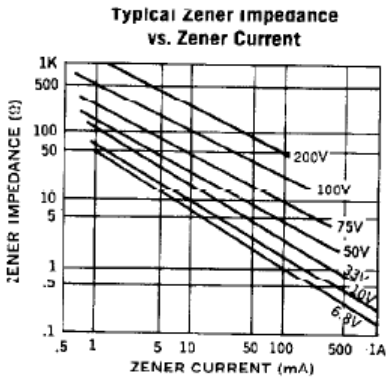
†All zener voltages are measured with an automated test set using a 35 ms test time. Longer or shorter test times will have a corresponding effect on the measured value due to heating effects.

§ Zener impedance is derived from the 60 cycle voltage created when AC current with RMS value of 10% of DC zener test current is superimposed on the test current.

ǂ Graphs shown are for peak sinusoidal surge current of 8.3 ms duration using 60 cycle AC. The 8.3 ms square pulse rating is 71% of the value shown.

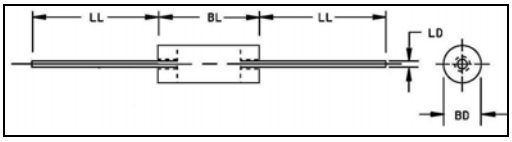






MECHANICAL CHARACTERISTICS

Case:	Glass
Marking:	Alpha-Numeric and Body Painted
Polarity:	Cathode Band



	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.145	-	3.680
BL	-	0.300	-	7.620
LD	0.039	0.041	0.990	1.050
LL	0.975	-	24.800	-

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