5 Watt

FEATURES

- 2 Times Greater Surge Rating than Conventional 10 Watt Zeners
- Small Physical Size

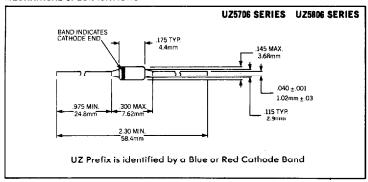
DESCRIPTIONFused-in-glass, metallurgically-bonded 5 watt zeners.

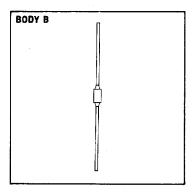
4

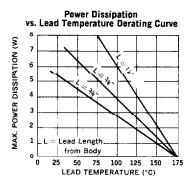
ABSOLUTE MAXIMUM RATINGS

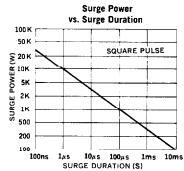
Zener Voltage, Vz	6.8 to 400V
Continuous Current	See Table
Surge Current (8.3ms)	See Table
Surge Power	See Graph
Power	
Storage and Operating Temperature	65°C to +175°C

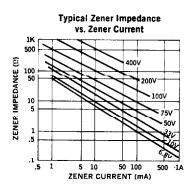
MECHANICAL SPECIFICATIONS













Electrical Specifications at 25°C						Maximum Ratings				
		Nominal		Max. Zener Impedance §	Maximum Reverse Leakage Current			_Тур.	Maximum	Maximum
Туі	pe *	Zener Voltage † V _Z @ I _{Z1}	Test Current I _{ZT}	Z _Z @ I _{ZT}	I _R	± 5% V _R	± 10% V _R	Temp. Coeff. T _C @ I _{ZT}	Continuous Current *	Surge Current ‡
±5% Tolerance	±10% Tolerance	Volts	mA	Ohms	μА	Volts	Volts	%/°C	mA	Amps
UZ5706 UZ5707 UZ5708 UZ5709 UZ5710	UZ5806 UZ5807 UZ5808 UZ5809 UZ5810	6.8 7.5 8.2 9.1 10.0	175 175 150 150 125	1.0 1.5 1.5 2.0 2.0	500 400 200 100 75	5.2 5.7 6.2 6.9 7.6	4.9 5.4 5.9 6.6 7.2	.05 .06 .06 .06 .07	675 620 570 510 470	40 32 24 22 20
UZ5712 UZ5713 UZ5714 UZ5715 UZ5716	UZ5812 UZ5813 UZ5814 UZ5815 UZ5816	12 13 14 15 16	100 100 100 75 75	2.5 3.0 3.0 3.5 3.5	50 25 20 15 10	9.1 9.9 10.6 11.4 12.2	8.6 9.3 10.1 10.8 11.5	.07 .08 .08 .08	385 350 320 300 275	18 16 14 12 10
UZ5718 UZ5720 UZ5722 UZ5724 UZ5727	UZ5818 UZ5820 UZ5822 UZ5824 UZ5827	18 20 22 24 27	65 65 50 50 50	4.0 4.5 5.0 5.0 6.0	10 10 10 10 10	13.7 15.2 16.7 18.2 20.6	12.9 14.4 15.8 17.3 19.4	.085 .085 .085 .090 .090	255 220 195 180 155	9.0 8.0 7.0 6.5 6.0
UZ5730 UZ5733 UZ5736 UZ5740 UZ5745	UZ5830 UZ5833 UZ5836 UZ5840 UZ5845	30 33 36 40 45	40 40 30 30 30 30	8 10 11 14 20	10 5 5 5 5	22.8 25.1 27.4 30.4 34.2	21.6 23.7 25.9 28.8 32.4	.09 .09 .095 .095 .095	140 130 120 105 95	5.5 5.0 4.5 4.0 3.5
UZ5750 UZ5756 UZ5760 UZ5770 UZ5775	UZ5850 UZ5856 UZ5860 UZ5870 UZ5875	50 56 60 70 75	25 20 20 20 20 15	25 35 40 50 55	5 5 5 5	38.0 42.6 45.7 53.3 56.0	36.0 40.3 43.2 50.5 54.0	.095 .095 .100 .100	85 80 75 65 60	3.0 2.8 2.5 2.3 2.0
UZ5780 UZ5790 UZ5110 UZ5111 UZ5112	UZ5880 UZ5890 UZ5210 UZ5211 UZ5212	80 90 100 110 120	15 15 10 10	80 90 100 125 170	5 5 5 5 5 5 5	60.8 68.5 76.0 83.6 91.2	57.7 64.8 72.0 79.2 86.4	.100 .100 .100 .100 .100	55 50 45 40 38	1.8 1.6 1.4 1.2 1.0
UZ5113 UZ5114 UZ5115 UZ5116 UZ5117	UZ5213 UZ5214 UZ5215 UZ5216 UZ5217	130 140 150 160 170	10 8 8 8 8	190 230 330 350 380	5 5 5 5 5	98.8 106,0 114.0 122.0 129.0	93.6 101.0 108.0 115.0 122.0	.105 .105 .105 .105 .105	35 33 31 30 27	0.80 0.80 0.75 0.70 0.65
UZ5118 UZ5119 UZ5120 UZ5122 UZ5124	UZ5218 UZ5219 UZ5220 UZ5222 UZ5224	180 190 200 220 240	5 5 5 5 5	450 470 500 550 650	5 5 5 5 5 5	137 144 152 167 182	129 137 144 158 173	.110 .110 .110 .115 .115	25 24 22 20 18	0.60 0.55 0.50 0.45 0.40
UZ5126 UZ5128 UZ5130 UZ5132 UZ5134	UZ5226 UZ5228 UZ5230 UZ5232 UZ5234	260 280 300 320 340	5 4 4 4 4	750 850 950 1100 1200	5 5 5 5	198 213 226 243 258	187 202 216 230 245	.120 .120 .120 .120 .120	17 16 15 14 13	0.35 0.30 0.25 0.24 0.23
UZ5136 UZ5138 UZ5140	UZ5236 UZ5238 UZ5240	360 380 400	3 3 3	1400 1500 1800	5 5 5	274 289 304	259 274 288	.120 .120 .120	12 12 11	0.22 0.21 0.20

Temperature Range: Operating and Storage −65°C to +175°C.

Several of the above types now have JEDEC 1N type numbers. The following cross-reference table lists the appropriate 1N numbers; specifications are same as above.

JEDEC #	MICROSEMI TYPE	JEDEC #	MICROSEMI TYPE	JEDEC #	MICROSEMI TYPE
1N5118 1N5119 1N5120 1N5121 1N5122 1N5123	UZ5714 UZ5740 UZ5745 UZ5750 UZ5760 UZ5770	1N5124 1N5125 1N5126 1N5127 1N5128 1N5129	UZ5780 175799 UZ5114 UZ5117 UZ5119 UZ5126	1N5130 1N5131 1N5132 1N5133 1N5134	UZ5128 UZ5132 UZ5134 UZ5138 UZ5140

^{*} Specify 20% tolerance by changing the second numeral of type number from 8 to 9 (UZ5809 becomes UZ5909) or from 2 to 3 (UZ5211 becomes UZ5311).

UZ5311).

† All zener voltages are measured with an automated test set using a 35 millisecond 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 AC voltage created when AC current with RMS value of 10% of DC zener test current superimposed on the test current.

**Maximum current Dased on 5 watt rating. See lead temperature derating curves for proper mounting methods.

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

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Microchip:

UZ5836 UZ5219 UZ5815 UZ5140 UZ5722 UZ5727 UZ5724 UZ5720 UZ5840 UZ5113