

Microsemi Corp.
The diode experts

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(714) 979-8220



**MZ5806 thru
MZ5891
and
MZ5210 thru
MZ5240**

**GLASS ZENER
DIODES**

FEATURES

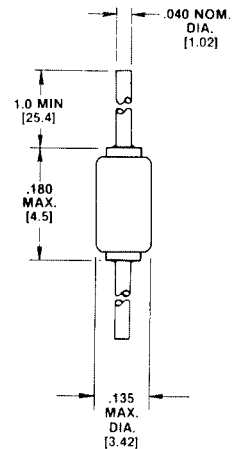
- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- HIGH PERFORMANCE CHARACTERISTICS
- VERY LOW THERMAL IMPEDANCE

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +200°C

ELECTRICAL CHARACTERISTICS

TYPE	ELECTRICAL SPECIFICATIONS AT 25°C										
	NOMINAL ZENER VOLTAGE Vz @ IZT	TEST CURRENT IZT	MAXIMUM ZENER IMPEDANCE		REGULATION %	MAXIMUM REVERSE LEAKAGE CURRENT			MAXIMUM TEMPERATURE COEFF. TC %/°C	MAXIMUM RATINGS	
			Zz @ IZT	ZzK @ IZK		Iz	IzR	VzR		CONTINUOUS CURRENT IZM	SURGE CURRENT IS
10%	VOLTS	mA	OHMS	OHMS	VOLTS	μA	μA	VOLTS	%/°C	mA	AMPS
MZ5806	6.8	175	1.0	1000	0.7	300	5.7	06	630	32	40
MZ5807	7.5	175	1.5	800	0.7	200	6.2	06	580	24	24
MZ5808	8.2	150	1.5	600	0.7	100	6.0	06	520	22	20
MZ5809	9.1	150	2.0	400	0.7	50	6.9	06	475	20	20
MZ5810	10.0	125	2.0	125	0.8	25	7.6	07	430	19	18
MZ5811	11	125	2.5	130	0.8	15	8.4	07	395	18	16
MZ5812	12	100	2.5	140	0.8	10	9.1	07	365	16	14
MZ5813	13	100	3.0	145	0.8	10	9.9	08	315	12	12
MZ5814	14	100	3.0	145	0.9	10	11.2	08	294	10	10
MZ5815	15	75	3.5	150	1.0	5	11.4	08	264	9.0	9.0
MZ5816	16	75	3.5	155	1.1	5	12.2	08	216	6.5	6.0
MZ5818	18	65	4.0	160	1.2	5	13.7	.085	198	6.5	6.0
MZ5820	20	65	4.5	165	1.5	2	15.2	.085	176	6.0	6.0
MZ5822	22	50	5.0	170	1.8	2	16.7	.085	158	5.5	5.0
MZ5824	24	50	5.0	175	2.0	2	18.2	.090	144	5.0	4.5
MZ5827	27	50	6.0	180	2.0	2	20.6	.090	132	4.5	4.0
MZ5830	30	40	8	190	2.5	2	22.8	.090	122	4.0	4.0
MZ5833	33	40	10	200	2.8	2	25.1	.095	116	4.0	3.5
MZ5836	36	30	11	220	3.0	2	27.4	.095	110	3.5	3.5
MZ5839	39	30	14	230	3.0	2	29.7	.095	105	3.5	3.2
MZ5840	40	30	14	230	3.0	2	30.4	.095	96	3.0	3.0
MZ5843	43	30	20	240	3.3	2	32.7	.095	92	3.0	2.8
MZ5845	45	30	20	240	3.3	2	34.2	.095	84	2.8	2.5
MZ5847	47	25	25	250	3.5	2	35.8	.095	78	2.5	2.5
MZ5850	50	25	25	260	3.8	2	36.6	.095	76	2.5	2.2
MZ5851	51	25	27	270	4.0	2	38.8	.095	70	2.2	2.2
MZ5856	56	20	35	320	4.4	2	42.6	.095	65	2.0	2.0
MZ5860	60	20	40	360	4.8	2	45.7	.100	60	1.8	1.8
MZ5862	62	20	42	400	5.0	2	47.1	.100	58	1.8	1.6
MZ5868	68	20	50	500	5.5	2	51.7	.100	54	1.6	1.6
MZ5870	70	20	50	580	5.8	2	53.6	.100	50	1.6	1.4
MZ5875	75	20	55	620	6.0	2	56.0	.100	47	1.4	1.4
MZ5880	80	15	80	670	6.4	2	58.6	.100	43	1.2	1.2
MZ5882	82	15	80	720	6.6	2	62.2	.100	40	1.2	1.0
MZ5890	90	15	90	740	7.3	2	66.8	.100	37	1.0	1.0
MZ5891	91	15	90	760	7.5	2	69.2	.100	35	1.0	0.9
MZ5210	100	12	110	800	8.0	2	76.0	.100	32	0.9	0.9
MZ5211	110	12	125	1000	9.0	2	83.6	.100	30	0.8	0.8
MZ5212	120	10	170	1150	10	2	91.2	.100	28	0.8	0.8
MZ5213	130	10	190	1250	11	2	98.8	.105	26	0.8	0.8
MZ5214	140	8	230	1350	12	2	102.8	.105	24	0.8	0.8
MZ5215	150	8	330	1500	13	2	114.0	.105	22	0.75	0.75
MZ5216	160	8	350	1650	14	2	121.6	.105	20	0.7	0.7
MZ5217	170	8	380	1700	15	2	129.2	.105	18	0.65	0.65
MZ5218	180	5	450	1750	16	2	136.8	.110	16	0.6	0.6
MZ5219	190	5	470	1800	17	2	148.6	.110	14	0.55	0.55
MZ5220	200	5	500	1850	18	2	152	.110	12	0.5	0.5
MZ5222	220	5	550	2000	19	2	167	.115	11	0.50	0.50
MZ5224	240	5	650	2050	22	2	182	.115	10	0.50	0.50
MZ5226	260	5	750	2075	24	2	198	.120	9	0.35	0.35
MZ5227	270	5	800	2100	25	2	206	.120	8	0.35	0.35
MZ5228	280	4	850	2125	26	2	217	.120	7	0.30	0.30
MZ5230	300	4	950	2150	28	2	228	.120	6	0.30	0.30
MZ5232	320	4	1100	2175	30	2	242	.120	5	0.27	0.27
MZ5233	330	4	1175	2200	32	2	251	.120	4	0.25	0.25
MZ5234	340	4	1200	2250	33	2	263	.120	3	0.23	0.23
MZ5236	360	3	1400	2300	35	2	274	.120	2	0.22	0.22
MZ5238	380	3	1500	2400	38	2	286	.120	2	0.21	0.21
MZ5239	390	3	1600	2500	40	2	297	.120	2	0.20	0.20
MZ5240	400	3	1800	2600	42	2	300	.120	2	0.20	0.20



**FIGURE 1
PACKAGE E**

MECHANICAL CHARACTERISTICS

- CASE: Hermetically sealed glass case.
- LEAD MATERIAL: Silver clad copper or tinned copper.
- MARKING: Body painted, alpha numeric.
- POLARITY: Cathode band.

MZ5806 - MZ5891, MZ5210 - MZ5240

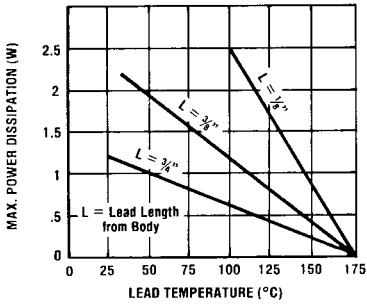


FIGURE 2
POWER DISSIPATION
vs. LEAD TEMPERATURE DERATING CURVE

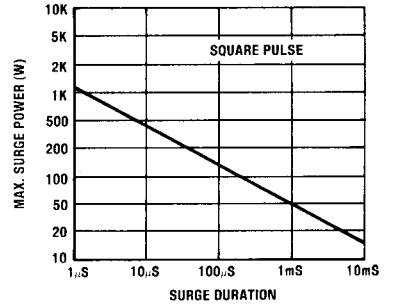


FIGURE 3
vs. SURGE DURATION

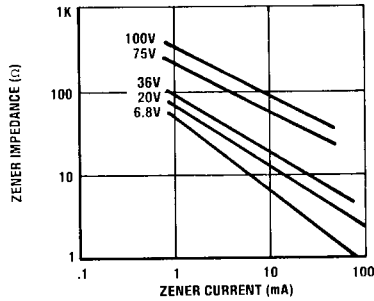


FIGURE 4
TYPICAL ZENER IMPEDANCE
vs. ZENER CURRENT