



High-reliability discrete products  
and engineering services since 1977

# 1N5063-1N4097, MZ806-MZ210

## 3 WATT ZENER DIODES

### FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

### MAXIMUM RATINGS

Rating	Value
Operating Temperature	-65 to 175°C
Storage Temperature	-65 to 200°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise specified)

Type (note 1)		Electrical Specifications @ 25°C							Maximum Ratings	
		Nominal Zener Voltage	Test Current	Maximum Reverse Leakage Current			Maximum Zener Impedance	Typ. Temp. Coefficient	Maximum Continuous Current	Maximum Surge Current
				I <sub>R</sub> @ V <sub>R</sub>	± 5% V <sub>R</sub>	±10% V <sub>R</sub>				
±5% Tolerance	±10% Tolerance	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	μA	Volts	Volts	Ohms	%/°C	mA	Amps
1N5063	MZ806	6.8	75	500	5.2	4.9	2	.04	440	10.0
1N5064	MZ807	7.5	75	300	5.7	5.4	2	.04	400	8.00
1N5065	MZ808	8.2	75	200	6.2	5.9	3	.05	360	7.00
1N5066	MZ809	9.1	75	100	6.9	6.6	3	.05	330	6.00
1N5067	MZ810	10.0	75	40	7.6	7.2	4	.06	300	5.00
1N4883	MZ812	12	65	10	9.1	8.6	5	.07	250	4.00
1N5069	MZ813	13	50	10	9.9	9.3	6	.07	230	4.00
1N5070	MZ814	14	50	10	10.6	10.1	6	.07	210	4.00
1N5071	MZ815	15	50	10	11.4	10.8	6	.07	200	3.00
1N5072	MZ816	16	50	5	12.2	11.5	7	.07	185	3.00
1N5073	MZ818	18	40	5	13.7	12.9	8	.08	170	2.00
1N4884	MZ820	20	40	5	15.2	14.4	9	.08	150	2.00
1N5074	MZ822	22	30	5	16.7	15.8	10	.08	135	2.00
1N5075	MZ824	24	30	5	18.2	17.3	10	.08	125	1.50
1N5076	MZ827	27	25	1	20.6	19.4	12	.09	110	1.50
1N5077	MZ830	30	25	1	22.8	21.6	15	.090	100	1.50
1N5078	MZ833	33	20	1	25.1	23.7	21	.090	90	1.20
1N5079	MZ836	36	20	1	27.4	25.9	21	.090	85	1.00
1N5081	MZ840	40	20	1	30.4	28.8	27	.095	75	1.00
1N5083	MZ845	45	15	1	34.2	32.4	37	.095	65	0.80
1N5085	MZ850	50	15	1	38.0	36.0	50	.095	60	0.80
1N5087	MZ856	56	10	1	42.6	40.3	70	.095	55	0.70
1N5088	MZ860	60	10	1	45.7	43.2	70	.095	50	0.60
1N5091	MZ870	70	10	1	53.3	50.5	90	.095	45	0.60
1N5092	MZ875	75	10	1	56.0	54.0	100	.095	40	0.50

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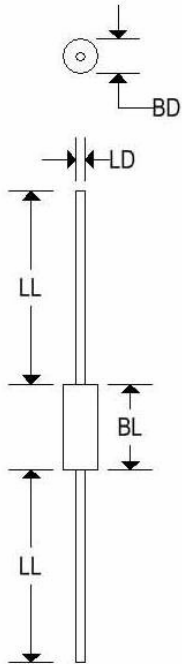
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±5% Tolerance	±10% Tolerance	Volts	mA	µA	Volts	Volts	Ohms	%/°C	mA	Amps
1N5093	MZ880	80	10	1	60.8	57.7	115	.095	35	0.40
1N4096	MZ890	90	8.0	1	68.5	64.8	150	.095	30	0.40
1N4097	MZ210	100	5.0	100	76.0	72.0	175	.100	30	0.4

### MECHANICAL CHARACTERISTICS

<b>Case:</b>	Digi A
<b>Marking:</b>	Body painted, alpha-numeric
<b>Polarity:</b>	Cathode band



	Digi A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.095	-	2.413
BL	-	0.180	-	4.572
LD	0.028	0.032	0.711	0.813
LL	0.700	-	17.800	-