

MZ5913B - MZ5956B

V_Z : 3.3 - 200 Volts
P_D : 1.5 Watts

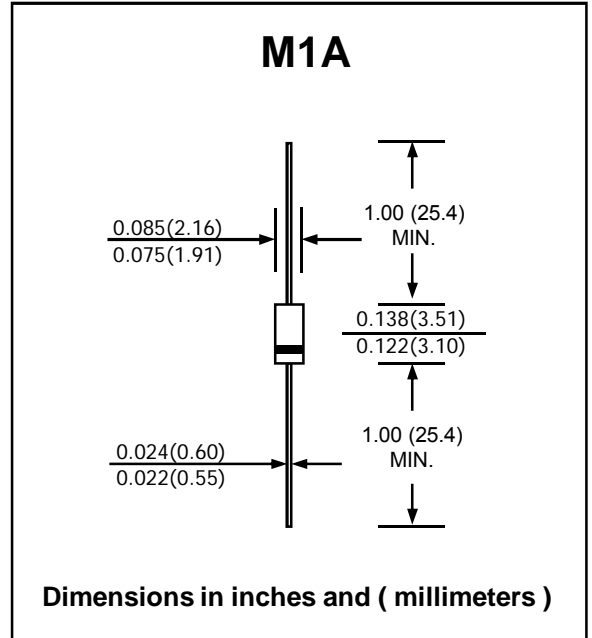
FEATURES :

- * Complete Voltage Range 3.3 to 200 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : M1A Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.20 gram (approximately)

SILICON ZENER DIODES

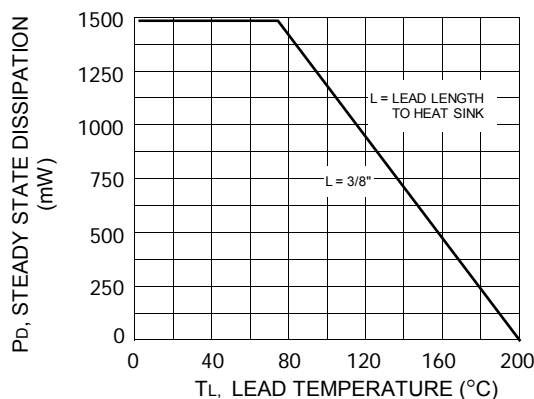


MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
Maximum Steady state Power Dissipation @ T _L = 75 °C, Lead Length = 3/8" Derate above 75 °C	P _D	1.5	W
Maximum Forward Voltage at I _F = 0.2 A	V _F	1.5	V
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 200	°C

Fig. 1 POWER TEMPERATURE DERATING CURVE





ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$		I_{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μ A)	(V)	(mA)
MZ5913B	3.3	113.6	10	500	1.0	100	1.0	454
MZ5914B	3.6	104.2	9.0	500	1.0	75	1.0	416
MZ5915B	3.9	96.1	7.5	500	1.0	25	1.0	384
MZ5916B	4.3	87.2	6.0	500	1.0	5.0	1.0	348
MZ5917B	4.7	79.8	5.0	500	1.0	5.0	1.5	319
MZ5918B	5.1	73.5	4.0	400	1.0	5.0	2.0	294
MZ5919B	5.6	66.9	2.0	300	1.0	5.0	3.0	267
MZ5920B	6.2	60.5	2.0	200	1.0	5.0	4.0	241
MZ5921B	6.8	55.1	2.5	200	1.0	5.0	5.2	220
MZ5922B	7.5	50.0	3.0	400	0.5	5.0	6.0	200
MZ5923B	8.2	45.7	3.5	400	0.5	5.0	6.5	182
MZ5924B	9.1	41.2	4.0	500	0.5	5.0	7.0	164
MZ5925B	10	37.5	4.5	500	0.25	5.0	8.0	150
MZ5926B	11	34.1	5.5	550	0.25	1.0	8.4	136
MZ5927B	12	31.2	6.5	550	0.25	1.0	9.1	125
MZ5928B	13	28.8	7.0	550	0.25	1.0	9.9	115
MZ5929B	15	25.0	9.0	600	0.25	1.0	11.4	100
MZ5930B	16	23.4	10	600	0.25	1.0	12.2	93
MZ5931B	18	20.8	12	650	0.25	1.0	13.7	83
MZ5932B	20	18.7	14	650	0.25	1.0	15.2	75
MZ5933B	22	17.0	17.5	650	0.25	1.0	16.7	68
MZ5934B	24	15.6	19	700	0.25	1.0	18.2	62
MZ5935B	27	13.9	23	700	0.25	1.0	20.6	55
MZ5936B	30	12.5	26	750	0.25	1.0	22.8	50
MZ5937B	33	11.4	33	800	0.25	1.0	25.1	45
MZ5938B	36	10.4	38	850	0.25	1.0	27.4	41
MZ5939B	39	9.6	45	900	0.25	1.0	29.7	38
MZ5940B	43	8.7	53	950	0.25	1.0	32.7	34
MZ5941B	47	8.0	67	1000	0.25	1.0	35.8	31
MZ5942B	51	7.3	70	1100	0.25	1.0	38.8	29
MZ5943B	56	6.7	86	1300	0.25	1.0	42.6	26
MZ5944B	62	6.0	100	1500	0.25	1.0	47.1	24
MZ5945B	68	5.5	120	1700	0.25	1.0	51.7	22
MZ5946B	75	5.0	140	2000	0.25	1.0	56.0	20
MZ5947B	82	4.6	160	2500	0.25	1.0	62.2	18
MZ5948B	91	4.1	200	3000	0.25	1.0	69.2	16
MZ5949B	100	3.7	250	3100	0.25	1.0	76.0	15
MZ5950B	110	3.4	300	4000	0.25	1.0	83.6	13
MZ5951B	120	3.1	380	4500	0.25	1.0	91.2	12
MZ5952B	130	2.9	450	5000	0.25	1.0	98.8	11
MZ5953B	150	2.5	600	6000	0.25	1.0	114.0	10
MZ5954B	160	2.3	700	6500	0.25	1.0	121.6	9.0
MZ5955B	180	2.1	900	7000	0.25	1.0	136.8	8.0
MZ5956B	200	1.9	1900	9990	0.25	1.0	152.0	7.0

Note : (1) Suffix " B " indicates $\pm 5\%$ tolerance, suffix " A " indicates $\pm 10\%$ tolerance.