

# 1N5913A-1N5956A

## 1.5 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

Characteristic	Symbol	Value	Unit
DC power dissipation @ $T_L = 25^\circ\text{C}$	$P_D$	1.5	Watts
Maximum forward voltage @ $I_F = 200\text{ mA}$	$V_F$	1.2	Volts
Maximum thermal resistance junction to ambient air <sup>Note 1</sup>	$R_{\theta JA}$	120	$^\circ\text{C}/\text{W}$
Junction temperature range	$T_J$	-65 to +175	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-65 to +175	$^\circ\text{C}$

Note 1: Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Part number	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	$\Omega$	$\Omega$	mA	$\mu\text{A}$	V	mA
1N5913A	3.3	113.6	10	500	1.0	100	1.0	454
1N5914A	3.6	104.2	9.0	500	1.0	75	1.0	416
1N5915A	3.9	96.1	7.5	500	1.0	25	1.0	384
1N5916A	4.3	87.2	6.0	500	1.0	5.0	1.0	348
1N5917A	4.7	79.8	5.0	500	1.0	5.0	1.5	319
1N5918A	5.1	73.5	4.0	350	1.0	5.0	2.0	294
1N5919A	5.6	66.9	2.0	250	1.0	5.0	3.0	267
1N5920A	6.2	60.5	2.0	200	1.0	5.0	4.0	241
1N5921A	6.8	55.1	2.5	200	1.0	5.0	5.2	220
1N5922A	7.5	50.0	3.0	400	0.5	5.0	6.0	200
1N5923A	8.2	45.7	3.5	400	0.5	5.0	6.5	182
1N5924A	9.1	41.2	4.0	500	0.5	5.0	7.0	164
1N5925A	10	37.5	4.5	500	0.25	5.0	8.0	150
1N5926A	11	34.1	5.5	550	0.25	1.0	8.4	136
1N5927A	12	31.2	6.5	550	0.25	1.0	9.1	125
1N5928A	13	28.8	7.0	550	0.25	1.0	9.9	115
1N5929A	15	25.0	9.0	600	0.25	1.0	11.4	100
1N5930A	16	23.4	10	600	0.25	1.0	12.2	93
1N5931A	18	20.8	12	650	0.25	1.0	13.7	83
1N5932A	20	18.7	14	650	0.25	1.0	15.2	75
1N5933A	22	17.0	17.5	650	0.25	1.0	16.7	68
1N5934A	24	15.6	19	700	0.25	1.0	18.2	62
1N935A	27	13.9	23	700	0.25	1.0	20.6	55
1N5936A	30	12.5	28	750	0.25	1.0	22.8	50

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1N5937A	33	11.4	33	800	0.25	1.0	25.1	45
1N5938A	36	10.4	38	850	0.25	1.0	27.4	41
1N5939A	39	9.6	45	900	0.25	1.0	29.7	38
1N5940A	43	8.7	53	950	0.25	1.0	32.7	34
1N5941A	47	8.0	67	1000	0.25	1.0	35.8	31
1N5942A	51	7.3	70	1100	0.25	1.0	38.8	29
1N5943A	56	6.7	86	1300	0.25	1.0	42.6	26
1N5944A	62	6.0	100	1500	0.25	1.0	47.1	24
1N5945A	68	5.5	120	1700	0.25	1.0	51.2	22
1N5946A	75	5.0	140	2000	0.25	1.0	56.0	20
1N5947A	82	4.6	160	2500	0.25	1.0	62.2	18
1N5948A	91	4.1	200	3000	0.25	1.0	69.2	16
1N5949A	100	3.7	250	3100	0.25	1.0	76.0	15
1N5950A	110	3.4	300	4000	0.25	1.0	83.6	13
1N5951A	120	3.1	380	4500	0.25	1.0	91.2	12
1N5952A	130	2.9	450	5000	0.25	1.0	98.8	11
1N5953A	150	2.5	600	6000	0.25	1.0	114.0	10
1N5954A	160	2.3	700	6500	0.25	1.0	121.6	9.0
1N5955A	180	2.1	900	7000	0.25	1.0	136.8	8.0
1N5956A	200	1.9	1200	8000	0.25	1.0	152.0	7.0

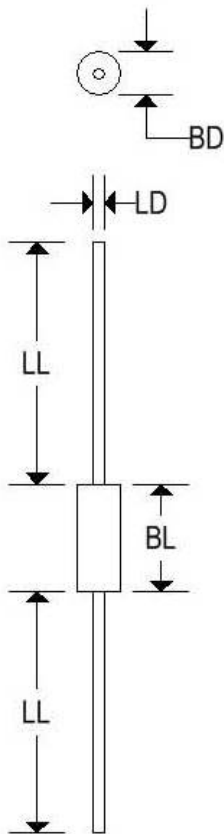
Suffix "A" indicates  $\pm 10\%$  tolerance, suffix "B" indicates  $\pm 5\%$  tolerance, "C" indicates a  $\pm 2\%$  tolerance and suffix "D" indicates a 1% tolerance.

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### MECHANICAL CHARACTERISTICS

Case	DO-41
Marking	Alpha-numeric
Polarity	Cathode band



	DO-41			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.107	-	2.720
BL	-	0.205	-	5.207
LD	0.028	0.034	0.711	0.864
LL	1.000	-	25.400	-

