1N5913B THRU 1N5956B

SILICON ZENER DIODE
1.5 WATT, 3.3 THRU 200 VOLTS

DO-41 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N5913B series silicon Zener diode is a high quality voltage regulator designed for use in automotive, industrial, commercial, entertainment and computer applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS:	**SYMBOL**		**UNITS**
Power Dissipation (T_L=75°C)	P_D	1.5	W
Operating and Storage Temperature	T_J, T_{stg}	-65 to +200	°C
V_Z Tolerance: Part number with “B” suffix		±5	%
V_Z Tolerance: Part number with “C” suffix		±2	%
V_Z Tolerance: Part number with “D” suffix		±1	%

ELECTRICAL CHARACTERISTICS: (T_L=30°C) V_F=1.5V MAX @ I_F=200mA (for all types)

TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R		I_{ZM}
	V	V	V	mA	Ω	Ω	mA	μA	V	mA
1N5913B	3.135	3.3	3.465	113.6	10	500	1.0	100	1.0	454
1N5914B	3.420	3.6	3.780	104.2	9.0	500	1.0	75	1.0	416
1N5915B	3.705	3.9	4.095	96.1	7.5	500	1.0	25	1.0	384
1N5916B	4.085	4.3	4.515	87.2	6.0	500	1.0	5.0	1.0	348
1N5917B	4.465	4.7	4.935	79.8	5.0	500	1.0	5.0	1.5	319
1N5918B	4.845	5.1	5.355	73.5	4.0	350	1.0	5.0	2.0	294
1N5919B	5.320	5.6	5.880	66.9	2.0	250	1.0	5.0	3.0	267
1N5920B	5.890	6.2	6.510	60.5	2.0	200	1.0	5.0	4.0	241
1N5921B	6.460	6.8	7.140	55.1	3.0	200	1.0	5.0	5.2	220
1N5922B	7.130	7.5	7.880	50	3.0	400	0.5	5.0	6.0	200
1N5923B	7.790	8.2	8.610	45.7	4.0	400	0.5	5.0	6.5	182
1N5924B	8.650	9.1	9.560	41.2	4.0	500	0.5	5.0	7.0	164
1N5925B	9.500	10	10.50	37.5	5.0	500	0.25	5.0	8.0	150
1N5926B	10.45	11	11.55	34.1	6.0	550	0.25	1.0	8.4	136
1N5927B	11.40	12	12.60	31.2	7.0	550	0.25	1.0	9.1	125
1N5928B	12.35	13	13.65	28.8	7.0	550	0.25	1.0	9.9	115
1N5929B	14.25	15	15.75	25	9.0	600	0.25	1.0	11.4	100
1N5930B	15.20	16	16.80	23.4	10	600	0.25	1.0	12.2	93
1N5931B	17.10	18	18.90	20.8	12	650	0.25	1.0	13.7	83
1N5932B	19.00	20	21.00	18.7	14	650	0.25	1.0	15.2	75
1N5933B	20.90	22	23.10	17	18	650	0.25	1.0	16.7	68

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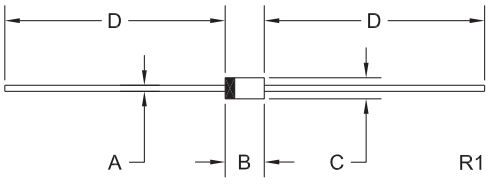
ELECTRICAL CHARACTERISTICS - Continued: (T_L=30°C) V_F=1.5V MAX @ I_F=200mA (for all types)

TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R		I_{ZM}
	V	V	V	mA	Ω	Ω	mA	μA	V	mA
1N5934B	22.80	24	25.20	15.6	19	700	0.25	1.0	18.2	62
1N5935B	25.65	27	28.35	13.9	23	700	0.25	1.0	20.6	55
1N5936B	28.50	30	31.50	12.5	26	750	0.25	1.0	22.8	50
1N5937B	31.35	33	34.65	11.4	33	800	0.25	1.0	25.1	45
1N5938B	34.20	36	37.80	10.4	38	850	0.25	1.0	27.4	41
1N5939B	37.05	39	40.95	9.6	45	900	0.25	1.0	29.7	38
1N5940B	40.85	43	45.15	8.7	53	950	0.25	1.0	32.7	34
1N5941B	44.65	47	49.35	8.0	67	1000	0.25	1.0	35.8	31
1N5942B	48.45	51	53.55	7.3	70	1100	0.25	1.0	38.8	29
1N5943B	53.20	56	58.80	6.7	86	1300	0.25	1.0	42.6	26
1N5944B	58.90	62	65.10	6.0	100	1500	0.25	1.0	47.1	24
1N5945B	64.60	68	71.40	5.5	120	1700	0.25	1.0	51.2	22
1N5946B	71.25	75	78.75	5.0	140	2000	0.25	1.0	56.0	20
1N5947B	77.90	82	86.10	4.6	160	2500	0.25	1.0	62.2	18
1N5948B	86.45	91	95.55	4.1	200	3000	0.25	1.0	69.2	16
1N5949B	95.00	100	105.0	3.7	250	3100	0.25	1.0	76.0	15
1N5950B	104.5	110	115.5	3.4	300	4000	0.25	1.0	83.6	13
1N5951B	114.0	120	126.0	3.1	380	4500	0.25	1.0	91.2	12
1N5952B	123.5	130	136.5	2.9	450	5000	0.25	1.0	98.8	11
1N5953B	142.5	150	157.5	2.5	600	6000	0.25	1.0	114.0	10
1N5954B	152.0	160	168.0	2.3	700	6500	0.25	1.0	121.6	9.0
1N5955B	171.0	180	189.0	2.1	900	7000	0.25	1.0	136.8	8.0
1N5956B	190.0	200	210.0	1.9	1200	8000	0.25	1.0	152.0	7.0

DO-41 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.028	0.034	0.71	0.86
B	0.160	0.205	4.06	5.21
C	0.080	0.107	2.03	2.72
D	1.000	-	25.40	-

DO-41 (REV: R1)

R3 (8-March 2012)