

SENSITRON SEMICONDUCTOR

1N4954/US thru 1N4996/US

TECHNICAL DATA DATA SHEET 5070, REV. A

Zener 5W Voltage Regulator

- Hermetic, non-cavity glass package
- Metallurgically bonded
- Operating and Storage Temperature: -65°C to +175°C

1N49xx

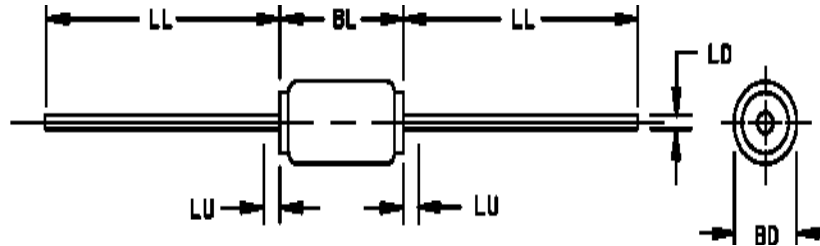
*SJ49xx / *SX49xx / *SV49xx

**Sensitron equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our specification 7700-4093.*

SERIES TYPE	V _Z NOM	TEST CURRENT I _Z	MAX ZENER IMPEDANCE		VOLTAGE REGULATION V _Z	SURGE CURRENT I _{ZSM}	MAX REVERSE LEAKAGE CURRENT VOLTAGE		TEMP. COEFF αV _Z %/°C	MAX CONTINUOUS CURRENT I _{ZM}
			Z _Z	Z _{ZK}			V _R	I _{R1}		
5W	V	mA	Ω	Ω	V	A	V	μA	%/°C	mA
1N4954/US	6.8	175	1	1,000	.7	29.3	5..2	150	.05	700
1N4955/US	7.5	175	1.5	800	.7	26.4	5..7	100	.06	630
1N4956/US	8.2	150	1.5	600	.7	24	6..2	50	.06	580
1N4957/US	9.1	150	2	400	.7	22	6..9	25	.06	520
1N4958/US	10	125	2	125	.8	20	7..6	25	.07	475
1N4959/US	11	125	2.5	130	.8	19	8.4	10	.07	430
1N4960/US	12	100	2.5	140	.8	18	9.1	10	.07	395
1N4961/US	13	100	3	145	.9	16	9.9	10	.08	365
1N4962/US	15	75	3.5	150	1.0	12	11.4	5	.08	315
1N4963/US	16	75	3.5	155	1.1	10	12.2	5	.08	294
1N4964/US	18	65	4	160	1.2	9.0	13.7	5	.085	264
1N4965/US	20	65	4.5	165	1.5	8.0	15.2	2	.085	237
1N4966/US	22	50	5	170	1.8	7.0	16.7	2	.085	216
1N4967/US	24	50	5	175	2.0	6.5	18.2	2	.09	198
1N4968/US	27	50	6	180	2.0	6.0	20.6	2	.09	176
1N4969/US	30	40	8	190	2.5	5.5	22.8	2	.09	158
1N4970/US	33	40	10	200	2.8	5.0	25.1	2	.095	144
1N4971/US	36	30	11	220	3.0	4.5	27.4	2	.095	132
1N4972/US	39	30	14	230	3.0	4.0	29.7	2	.095	122
1N4973/US	43	30	20	240	3.3	3.5	32.7	2	.095	110
1N4974/US	47	25	25	250	3.5	3.2	35.8	2	.095	100
1N4975/US	51	25	27	270	4.0	3.0	38.8	2	.095	92
1N4976/US	56	20	35	320	4.4	2.8	42.6	2	.095	84
1N4977/US	62	20	42	400	5.0	2.5	47.1	2	.100	76
1N4978/US	68	20	50	500	5.5	2.2	51.7	2	.100	70
1N4979/US	75	20	55	620	6.0	2.0	56	2	.100	63
1N4980/US	82	15	80	720	6.6	1.8	62.2	2	.100	58.0
1N4981/US	91	15	90	760	7.5	1.6	69.2	2	.100	52.5
1N4982/US	100	12	110	800	8.0	1.4	76.0	2	.100	47.5
1N4983/US	110	12	125	1,000	9.0	1.2	83.6	2	.100	43.0
1N4984/US	120	10	170	1,150	10	1.0	91.2	2	.100	39.5
1N4985/US	130	10	190	1,250	11	.8	98.8	2	.105	36.6
1N4986/US	150	8	330	1,500	13	.75	114.0	2	.105	31.6
1N4987/US	160	8	350	1,650	14	.70	121.6	2	.105	29.4
1N4988/US	180	5	450	1,750	16	.60	136.8	2	.110	26.4
1N4989/US	200	5	500	1,850	18	.50	152.0	2	.110	23.6
1N4990/US	220	5	550	2,000	19	.50	167	2	.115	21.6
1N4991/US	240	5	650	2,050	22	.40	182	2	.115	19.8
1N4992/US	270	5	800	2,100	25	.35	206	2	.120	17.5
1N4993/US	300	4	950	2,150	28	.30	228	2	.120	15.6
1N4994/US	330	4	1175	2,200	32	.25	251	2	.120	14.4
1N4995/US	360	3	1400	2,300	35	.22	274	2	.120	13
1N4996/US	390	3	1800	2,500	40	.20	297	2	.120	12

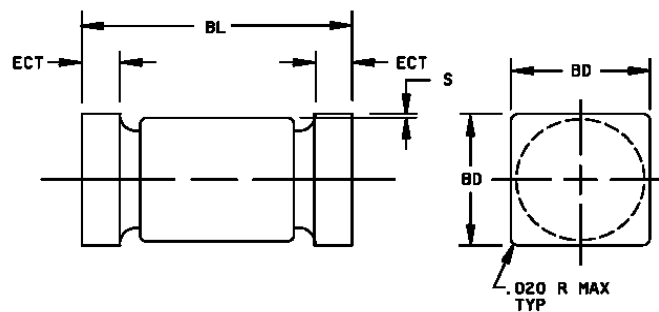
TECHNICAL DATA
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MECHANICAL DIMENSIONS
Zener 5W Package, AXIAL Version
In Inches / mm



Dimensions					
Ltr	Inches		Millimeters		Notes
	Min	Max			
BL	.130	.300	3.30	4.95	
BD	.090	.145	2.92	4.70	
LL	1.00	1.300	25.40	33.02	
LU		.050		1.27	4
LD	.037	.043	0.94	1.89	3

MECHANICAL DIMENSIONS
Zener 5W Package, MELF (/US version)
In Inches / mm



Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
BL	.200	.225	5.08	5.72
ECT	.019	.028	0.48	0.71
S	.003	---	0.08	---
BD	.137	.148	3.48	3.76

TECHNICAL DATA
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PART ORDERING INFORMATION:

The following part numbers can be purchased in either axial or surface mount devices and screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

Sensitron Screening Level	Part Number- Leaded Package (example for 1N4954)	Part Number- Surface Mount Package (example for 1N4954US)
SJ	SJ4954	SJ4954US
SX	SX4954	SX4954US
SV	SV4954	SV4954US

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