

Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



SILICON ZENERS DIODES



1N5913 - 1N5956 DO-41P Zener Diode

FEATURES:

- . Complete Voltage Range 3.3 to 200 Volts
- . High peak reverse power dissipation
- . High reliability
- . Low leakage current

MAXIMUM RATINGS

Rating at 25°C ambient temperature unless otherwise specified

DESCRIPTIONS	SYMBOL	VALUE	UNIT
DC Power Dissipation at T _L = 75°C*	P_{D}	1.5	W
Maximum Forward Voltage at I _F =200mA	V _F	1.5	V
Maximum Thermal Resistance Junction to Ambient Air **	RθJA	130	K/W
Junction Temperature	T _J	-55 to +175	°C
Storage Temperature Range	T _S	-55 to +175	°C

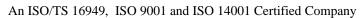
^{*} T_L = Lead temperature at 3/8° (9.5mm) from body

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^{**} Valid provided that leads are kept at ambient temperature at a distance of 10mm from case.



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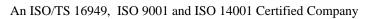




Type No.		l Zener tage		ximum Zener Impedance	Ī		Reverse Current	Maximum DC Zener Current
	VZ@IZT	IZI	ZZT@IZT	ZZK@IZK	IZK	IR	Ø VR	IZM
Axial Lead	(V)	(mA)	(Ω)	(Ω)	(mA)	(uA)	(V)	(mA)
1N5913	3.3	113.6	10	500	1.0	100	1.0	454
1N5914	3.6	104. 2	9.0	500	1.0	75	1.0	416
1N5915	3.9	96.1	7.5	500	1.0	25	1.0	384
1N5916	4.3	87. 2	6.0	500	1.0	5. 0	1.0	348
1N5917	4.7	79.8	5.0	500	1.0	5. 0	1.5	319
1N5918	5.1	73.5	4.0	350	1.0	5. 0	2.0	294
1N5919	5.6	66.9	2.0	250	1.0	5.0	3.0	267
1N5920	6.2	60.5	2.0	200	1.0	5.0	4.0	241
1N5921	6.8	55. 1	2.5	200	1.0	5.0	5.2	220
1N5922	7.5	50.0	3.0	400	0.5	5.0	6.0	200
1N5923	8.2	45.7	3.5	400	0.5	5.0	6.5	182
1N5924	9.1	41. 2	4.0	500	0.5	5. 0	7.0	164
1N5925	10	37. 5	4.5	500	0. 25	5. 0	8.0	150
1N5926	11	34.1	5.5	550	0. 25	1.0	8.4	136
1N5927	12	31. 2	6.5	550	0. 25	1.0	9.1	125
1N5928	13	28.8	7.0	550	0.25	1.0	9.9	115
1N5929	15	25.0	9.0	600	0. 25	1.0	11. 4	100
1N5930	16	23.4	10	600	0.25	1.0	12.2	93
1N5931	18	20.8	12	650	0.25	1.0	13.7	83
1N5932	20	18.7	14	650	0.25	1.0	15. 2	75
1N5933	22	17.0	17. 5	650	0. 25	1.0	16. 7	68
1N5934	24	15.6	19	700	0. 25	1.0	18. 2	62
1N5935	27	13.9	23	700	0.25	1.0	20.6	55
1N5936	30	12.5	28	750	0.25	1.0	22.8	50
1N5937	33	11.4	33	800	0. 25	1.0	25.1	45
1N5938	36	10.4	38	850	0.25	1.0	27. 4	41
1N5939	39	9.6	45	900	0. 25	1.0	29. 7	38
1N5940	43	8.7	53	950	0. 25	1.0	32. 7	34
1N5941	47	8.0	67	1000	0. 25	1.0	35. 8	31
1N5942	51	7.3	70	1100	0. 25	1.0	38.8	29
1N5943	56	6.7	86	1300	0. 25	1.0	42.6	26
1N5944	62	6.0	100	1500	0. 25	1.0	47.1	24
1N5945	68	5.5	120	1700	0. 25	1.0	51. 2	22
1N5946	75	5.0	140	2000	0.25	1.0	56	20
1N5947	82	4.6	160	2500	0. 25	1.0	62. 2	18
1N5948	91	4.1	200	3000	0.25	1.0	69. 2	16
1N5949	100	3. 7	250	3100	0. 25	1.0	76	15
1N5950	110	3.4	300	4000	0.25	1.0	83. 6	13
1N5951	120	3.1	380	4500	0. 25	1.0	91. 2	12
1N5952	130	2.9	450	5000	0.25	1.0	98.8	11
1N5953	150	2.5	600	6000	0. 25	1.0	114	10
1N5954	160	2.3	700	6500	0.25	1.0	121.6	9.0
1N5955	180	2.1	900	7000	0.25	1.0	136.8	8.0
1N5956	200	1.9	1200	8000	0.25	1.0	152	7.0

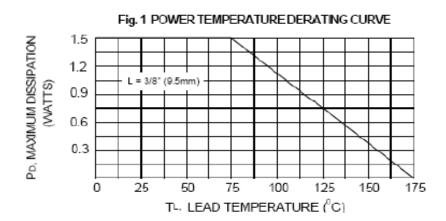


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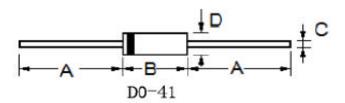








DO-41P PACKAGE DIMENSION



Dim	Millim	eters	Inches		
	Min	Max	Min	Max	
Α	25.4		1.000		
В	4.20	5.20	0.165	0.205	
С	0.70	0.90	0.028	0.034	
D	2.00	2.70	0.080	0.107	

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Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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