

# DIGITRON SEMICONDUCTORS

1N4678-1N4717

SILICON 250mW ZENER DIODES

## MAXIMUM RATINGS

Operating and Storage Temperature:	-65 to +175°C
DC Power Dissipation:	500 mW @ +50°C
DC Power Derating:	4mW/°C above +50°C
Forward Voltage @ 200mA:	1.1 Volts maximum

## ELECTRICAL CHARACTERISTICS

Part number (note 1)	Nominal Zener Voltage	Zener Test Current	Maximum Voltage Regulation (note 2)	Maximum Reverse Leakage Current		Maximum DC Zener Current
	$V_Z$	$I_{ZT}$	$\Delta V_Z$	$I_R @ V_R$		$I_{ZM}$
	Volts	$\mu A$	Volts	$\mu A$	Volts	mA
1N4678	1.8	50	0.70	7.5	1.0	120.0
1N4679	2.0	50	0.70	5.0	1.0	110.0
1N4680	2.2	50	0.75	4.0	1.0	100.0
1N4681	2.4	50	0.80	2.0	1.0	95.0
1N4682	2.7	50	0.85	1.0	1.0	90.0
1N4683	3.0	50	0.90	0.8	1.0	85.0
1N4684	3.3	50	0.95	7.5	1.5	80.0
1N4685	3.6	50	0.95	7.5	2.0	75.0
1N4686	3.9	50	0.97	5.0	2.0	70.0
1N4687	4.3	50	0.99	4.0	2.0	65.0
1N4688	4.7	50	0.99	10.0	3.0	60.0
1N4689	5.1	50	0.97	10.0	3.0	55.0
1N4690	5.6	50	0.96	10.0	4.0	50.0
1N4691	6.2	50	0.95	10.0	5.0	45.0
1N4692	6.8	50	0.90	10.0	5.1	35.0
1N4693	7.5	50	0.75	10.0	5.7	31.8
1N4694	8.2	50	0.50	1.0	6.2	29.0
1N4695	8.7	50	0.10	1.0	6.6	27.4
1N4696	9.1	50	0.08	1.0	6.9	26.2
1N4697	10.0	50	0.10	1.0	7.6	24.8
1N4698	11.0	50	0.11	0.05	8.4	21.6
1N4699	12.0	50	0.12	0.05	9.1	20.4
1N4700	13.0	50	0.13	0.05	9.8	19.0
1N4701	14.0	50	0.14	0.05	10.6	17.5
1N4702	15.0	50	0.15	0.05	11.4	16.3
1N4703	16.0	50	0.16	0.05	12.1	15.4
1N4704	17.0	50	0.17	0.05	12.9	14.5
1N4705	18.0	50	0.18	0.05	13.6	13.2
1N4706	19.0	50	0.19	0.05	14.4	12.5
1N4707	20.0	50	0.20	0.01	15.2	11.9
1N4708	22.0	50	0.22	0.01	16.7	10.8
1N4709	24.0	50	0.24	0.01	18.2	9.9
1N4710	25.0	50	0.25	0.01	19.0	9.5
1N4711	27.0	50	0.27	0.01	20.4	8.8
1N4712	28.0	50	0.28	0.01	21.2	8.5
1N4713	30.0	50	0.30	0.01	22.8	7.9
1N4714	33.0	50	0.33	0.01	25.0	7.2
1N4715	36.0	50	0.36	0.01	27.3	6.6
1N4716	39.0	50	0.39	0.01	29.6	6.1
1N4717	43.0	50	0.43	0.01	32.6	5.5

Note 1: All part numbers shown above have a standard tolerance of +/-5% of the nominal zener voltage.  $V_Z$  is measured with the diode in thermal equilibrium at 25°C ±3°C.

Note 2:  $\Delta V_Z @ 100\mu A$  minus  $V_Z @ 10\mu A$ .

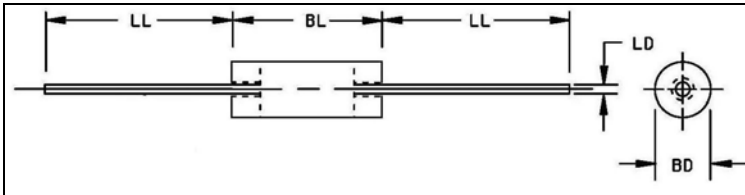
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## MECHANICAL CHARACTERISTICS

<b>Case:</b>	DO-35 (Glass)
<b>Marking:</b>	Alpha Numeric
<b>Polarity:</b>	Cathode Band



	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
	<b>BD</b>	0.068	0.075	1.727
<b>BL</b>	0.150	0.170	3.810	4.318
<b>LD</b>	0.018	0.022	0.457	0.559
<b>LL</b>	1.000	-	25.400	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.