

# KNOX SEMICONDUCTOR, INC.

## LOW LEVEL ZENER DIODES ULTRA-LOW CURRENT: 50 $\mu$ A - LOW LEAKAGE 1N4678 - 1N4714

TYPE NUMBER	NOM ZENER VOLTAGE $V_z$ @ 50 $\mu$ A (VOLTS)	MAX REVERSE LEAKAGE CURRENT $I_r$ @ $V_r$ ( $\mu$ Adc) (Vdc)		MAX REGULATION FACTOR 100 $\mu$ Adc TO 10 $\mu$ Adc $\Delta V_z$ (VOLTS)	MAX REGULATOR CURRENT $I_{zm}$ (mAdc)
1N4678	1.8	7.5	1.0	0.70	120.0
1N4679	2.0	5.0	1.0	0.70	110.0
1N4680	2.2	4.0	1.0	0.75	100.0
1N4681	2.4	2.0	1.0	0.80	95.0
1N4682	2.7	1.0	1.0	0.85	90.0
1N4683	3.0	0.8	1.0	0.90	85.0
1N4684	3.3	7.5	1.5	0.95	80.0
1N4685	3.6	7.5	2.0	0.95	75.0
1N4686	3.9	5.0	2.0	0.97	70.0
1N4687	4.3	4.0	2.0	0.99	65.0
1N4688	4.7	10.0	3.0	0.99	60.0
1N4689	5.1	10.0	3.0	0.97	55.0
1N4690	5.6	10.0	4.0	0.96	50.0
1N4691	6.2	10.0	5.0	0.95	45.0
1N4692	6.8	10.0	5.1	0.90	35.0
1N4693	7.5	10.0	5.7	0.75	31.8
1N4694	8.2	1.0	6.2	0.50	29.0
1N4695	8.7	1.0	6.6	0.10	27.4
1N4696	9.1	1.0	6.9	0.08	26.2
1N4697	10.0	1.0	7.6	0.10	24.8
1N4698	11.0	0.05	8.4	0.11	21.6
1N4699	12.0	0.05	9.1	0.12	20.4
1N4700	13.0	0.05	9.8	0.13	19.0
1N4701	14.0	0.05	10.6	0.14	17.5
1N4702	15.0	0.05	11.4	0.15	16.3
1N4703	16.0	0.05	12.1	0.16	15.4
1N4704	17.0	0.05	12.9	0.17	14.5
1N4705	18.0	0.05	13.6	0.18	13.2
1N4706	19.0	0.05	14.4	0.19	12.5
1N4707	20.0	0.01	15.2	0.20	11.9
1N4708	22.0	0.01	16.7	0.22	10.8
1N4709	24.0	0.01	18.2	0.24	9.9
1N4710	25.0	0.01	19.0	0.25	9.5
1N4711	27.0	0.01	20.4	0.27	8.8
1N4712	28.0	0.01	21.2	0.28	8.5
1M4713	30.0	0.01	22.8	0.30	7.9
1N4714	33.0	0.01	25.0	0.33	7.2

NOTE:  
Suffix denotes  $V_z$  tolerance: non suffix for  $\pm 5\%$ , C for  $\pm 2\%$ , D for  $\pm 1\%$ .  
Package Style DO-7