

Part II

1)

Diode Volts	Diode Volts (Mesured)	Current in mA BZX55C (Mesured)
0.35	0.325V	- 0.001ma
0.4525	0.4616V	-0.001ma
0.5419	0.5405V	0.028ma
0.5966	0.5914V	0.116ma
0.6465	0.6325V	0.0345ma
0.7040	0.6666V	0.0945ma
0.7516	0.6848V	0.1672ma
0.8058	0.6990V	0.2635ma

2)

Vapplied in Volts	Vzener in Volts (measured)	Izener in mA (measured)
3.5	3.502V	-0.009
4	4.055	-0.009
4.5	4.519	-0.009
5	5.066	-0.009
5.5	5.575	0.014
6	5.998	1.763
6.655	6.050	2.900
7	6.050	4.200
7.501	6.065	5.655
8	6.071	5.655
9	6.080	8.737
10	6.109	11.502
11	6.113	14.351
12	6.150	17.310
13	6.185	20.05
14	6.200	24.11
15	6.230	26.83

Part III

3)

	Vout			
	12		8	
	820	330	820	330
620	3.835	3.845	3.466	3.476
390	6.140	6.147	3.741	3.744
100	6.413	6.350	4.297	4.287

5)Line Regulation

RL=820	RI= 330
92250	92250
199996.6667	600750
529000	515750