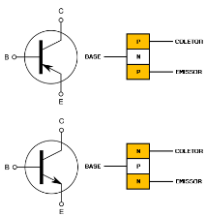


# Aula 02 – 78XX



- LM78XX
- LM79XX
- LM317

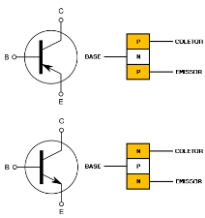
Regular tensão para alimentação

$$V_{xx} + 2V < V_{in} < 35V$$

Corrente Máxima 1A / Com Dissipador

Circuito simples apenas 2 capacitores

# Aula 02 – 79XX



- LM78XX
- **LM79XX**
- LM317

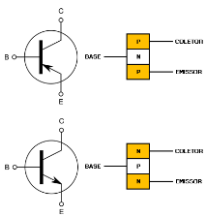
Regular tensão para alimentação

$$-35V < V_{in} < -V_{xx} - 2V$$

Corrente Máxima 1A / Com Dissipador

Circuito simples apenas 2 capacitores

# Aula 02 – LM317



- LM78XX
- LM79XX
- **LM317**

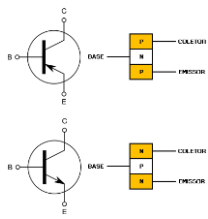

Regular tensão / corrente para alimentação

$$X+3V < V_{in} < 40V$$

Corrente Máxima 1,5A / Com Dissipador

Circuito simples apenas 2 resistores

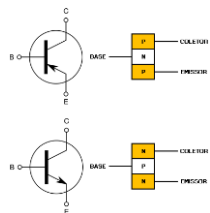
V:

- LM78XX  
- LM79XX  
- LM317

R2\R1	150	180	220	240	270	330	370	390	470
68	1.82	1.72	1.64	1.60	1.56	1.51	1.48	1.47	1.43
82	1.93	1.82	1.72	1.68	1.63	1.56	1.53	1.51	1.47
100	2.08	1.94	1.82	1.77	1.71	1.63	1.59	1.57	1.52
120	2.25	2.08	1.93	1.88	1.81	1.70	1.66	1.63	1.57
150	2.50	2.29	2.10	2.03	1.94	1.82	1.76	1.73	1.65
180	2.75	2.50	2.27	2.19	2.08	1.93	1.86	1.83	1.73
220	3.08	2.78	2.50	2.40	2.27	2.08	1.99	1.96	1.84
240	3.25	2.92	2.61	2.50	2.36	2.16	2.06	2.02	1.89
270	3.50	3.13	2.78	2.66	2.50	2.27	2.16	2.12	1.97
330	4.00	3.54	3.13	2.97	2.78	2.50	2.36	2.31	2.13
370	4.33	3.82	3.35	3.18	2.96	2.65	2.50	2.44	2.23
390	4.50	3.96	3.47	3.28	3.06	2.73	2.57	2.50	2.29
470	5.17	4.51	3.92	3.70	3.43	3.03	2.84	2.76	2.50
560	5.92	5.14	4.43	4.17	3.84	3.37	3.14	3.04	2.74
680	6.92	5.97	5.11	4.79	4.40	3.83	3.55	3.43	3.06
820	8.08	6.94	5.91	5.52	5.05	4.36	4.02	3.88	3.43
1000	9.58	8.19	6.93	6.46	5.88	5.04	4.63	4.46	3.91
1200	11.25	9.58	8.07	7.50	6.81	5.80	5.30	5.10	4.44
1500	13.75	11.67	9.77	9.06	8.19	6.93	6.32	6.06	5.24
1800	16.25	13.75	11.48	10.63	9.58	8.07	7.33	7.02	6.04
2200	19.58	16.53	13.75	12.71	11.44	9.58	8.68	8.30	7.10
2700	23.75	20.00	16.59	15.31	13.75	11.48	10.37	9.90	8.43
3300	28.75	24.17	20.00	18.44	16.53	13.75	12.40	11.83	10.03

I:



- LM78XX

- LM79XX

- LM317

A: (mA)	R ( $\Omega$ )	A: (mA)	R ( $\Omega$ )	A: (mA)	R ( $\Omega$ )	A: (mA)	R ( $\Omega$ )
1	1250,00	2	625,00	3	416,67	4	312,50
5	250,00	6	208,33	7	178,57	8	156,25
9	138,89	10	125,00	11	113,64	12	104,17
13	96,15	14	89,29	15	83,33	16	78,13
17	73,53	18	69,44	19	65,79	20	62,50
21	59,52	22	56,82	23	54,35	24	52,08
25	50,00	26	48,08	27	46,30	28	44,64
29	43,10	30	41,67	31	40,32	32	39,06
33	37,88	34	36,76	35	35,71	36	34,72
37	33,78	38	32,89	39	32,05	40	31,25
41	30,49	42	29,76	43	29,07	44	28,41
45	27,78	46	27,17	47	26,60	48	26,04
49	25,51	50	25,00	51	24,51	52	24,04
53	23,58	54	23,15	55	22,73	56	22,32
57	21,93	58	21,55	59	21,19	60	20,83
61	20,49	62	20,16	63	19,84	64	19,53
65	19,23	66	18,94	67	18,66	68	18,38
69	18,12	70	17,86	71	17,61	72	17,36
73	17,12	74	16,89	75	16,67	76	16,45
77	16,23	78	16,03	79	15,82	80	15,63
81	15,43	82	15,24	83	15,06	84	14,88
85	14,71	86	14,53	87	14,37	88	14,20
89	14,04	90	13,89	91	13,74	92	13,59