

Transistor: BD 137
Voltmeter: VC 120
RC: 10 kOhm, 20k bereich
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R21 im Schaltkreis 142,9 kOhm in 200k
R21 wirklich 7,05 kOhm normal im 20k

RC in kOhm, Ube 20V rang		Uce		Ic in mA
1	0.57	7.86		0.58
5	0.57	5.53		0.58
10	0.57	3.22		0.58

Mit Kondensator C_e , ohne Lastwiderstand R_L

R_c in kOhm U_e in mV p 2 U_a in mV ptp pm 20 mV

1	20.80	528.00
2	20.40	920.00
3	20.40	1400.00
4	20.40	1840.00
5	20.40	2280.00
6	20.80	2760.00
7	20.40	3200.00
8	20.40	3640.00
9	20.80	4080.00
10	20.40	4480.00

Ohne Kondensator C_e , ohne Lastwiderstand R_L

R_c in kOhm U_e in mV p 2 U_a in mV ptp pm 2 mV

1	20.80	22.80
2	20.80	40.40
3	20.80	60.00
4	21.20	79.20
5	20.80	99.20
6	20.80	118.00
7	20.80	136.00
8	20.80	156.00
9	20.80	176.00
10	20.80	196.00

Mit Kondensator C_e , mit Lastwiderstand R_L

R_c in kOhm U_e in mV p 2 U_a in mV ptp pm 20 mV

1	20.40	473.00
2	20.80	768.00
3	20.40	1060.00
4	20.40	1320.00
5	20.40	1540.00
6	20.80	1720.00
7	20.40	1880.00
8	20.40	2080.00
9	20.40	2240.00
10	20.40	2280.00

1	20.80	528.00	20.80	22.80	20.40	473.00
2	20.40	920.00	20.80	40.40	20.80	768.00
3	20.40	1400.00	20.80	60.00	20.40	1060.00
4	20.40	1840.00	21.20	79.20	20.40	1320.00
5	20.40	2280.00	20.80	99.20	20.40	1540.00
6	20.80	2760.00	20.80	118.00	20.80	1720.00
7	20.40	3200.00	20.80	136.00	20.40	1880.00
8	20.40	3640.00	20.80	156.00	20.40	2080.00
9	20.80	4080.00	20.80	176.00	20.40	2240.00
10	20.40	4480.00	20.80	196.00	20.40	2280.00
mit Kond ohne RL			ohne alles		mit allem	

Mit Kondensator Ce, ohne Lastwiderstand RL

Rc in kOhm 2 Ue in mV p 2 Ua in mV ptp pm 20 mV

1	20.80	528.00
2	20.40	920.00
3	20.40	1400.00
4	20.40	1840.00
5	20.40	2280.00
6	20.80	2760.00
7	20.40	3200.00
8	20.40	3640.00
9	20.80	4080.00
10	20.40	4480.00

Ohne Kondensator Ce, ohne Lastwiderstand RL

Rc in kOhm 2 Ue in mV p 2 Ua in mV ptp pm 2 mV

1	20.80	22.80
2	20.80	40.40
3	20.80	60.00
4	21.20	79.20
5	20.80	99.20
6	20.80	118.00
7	20.80	136.00
8	20.80	156.00

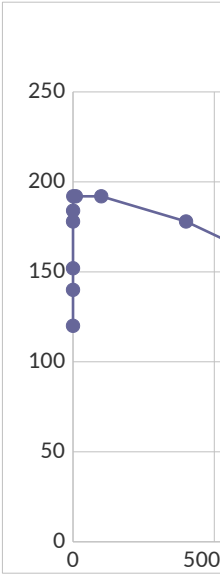
9	20.80	176.00
10	20.80	196.00

Mit Kondensator C_e , mit Lastwiderstand R_L

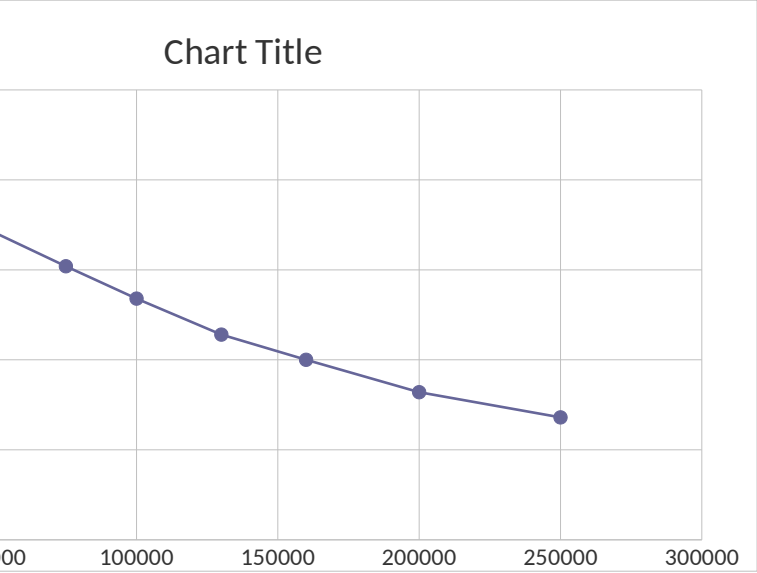
R_c in kOhm 2 U_e in mV p 2 U_a in mV ptp pm 20 mV

1	20.40	473.00
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4	20.40	1320.00
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6	20.80	1720.00
7	20.40	1880.00
8	20.40	2080.00
9	20.40	2240.00
10	20.40	2280.00

frequenz in HUE in mV	Ua in mV	Zeitdifferenz
6	20.8	120 180 grad, sonst in Zeit
8	20.4	140 180
10	20.4	152 180
20	19.6	178 180
40	20.4	184 180
100	20.8	192 180
1000	20.8	192 180
10000	21.2	192 50 mus
40000	21.2	178 14 mus
75000	20.8	152 7.8 mus
100000	21.2	134 6.2 mus
130000	20.8	114 4.92 mus
160000	20.8	100 4.24 mus
200000	20	82 3.44 mus
250000	20.4	68 2.76 mus



sdf



Uce= 5,53V	Ube	Ib	Uce in mV	Ic in μ A
		0	3	23
		50	10	115
		100	20	270
		200	30	368
		300	40	443
		400	50	505
		450	60	552
		500	70	573
		525	80	595
		550	90	607
		575	100	614
		600	150	630
		615	200	631
		630	300	630
		645	400	630
		650	500	627
		655	600	626
		660	700	624
		665	800	622
		670	900	621
			1000	620

Ic rückwärts in muA

23
98
249
345
426
473
512
544
564
579
586
603
607
608
609
610
611
612
613
614
616

