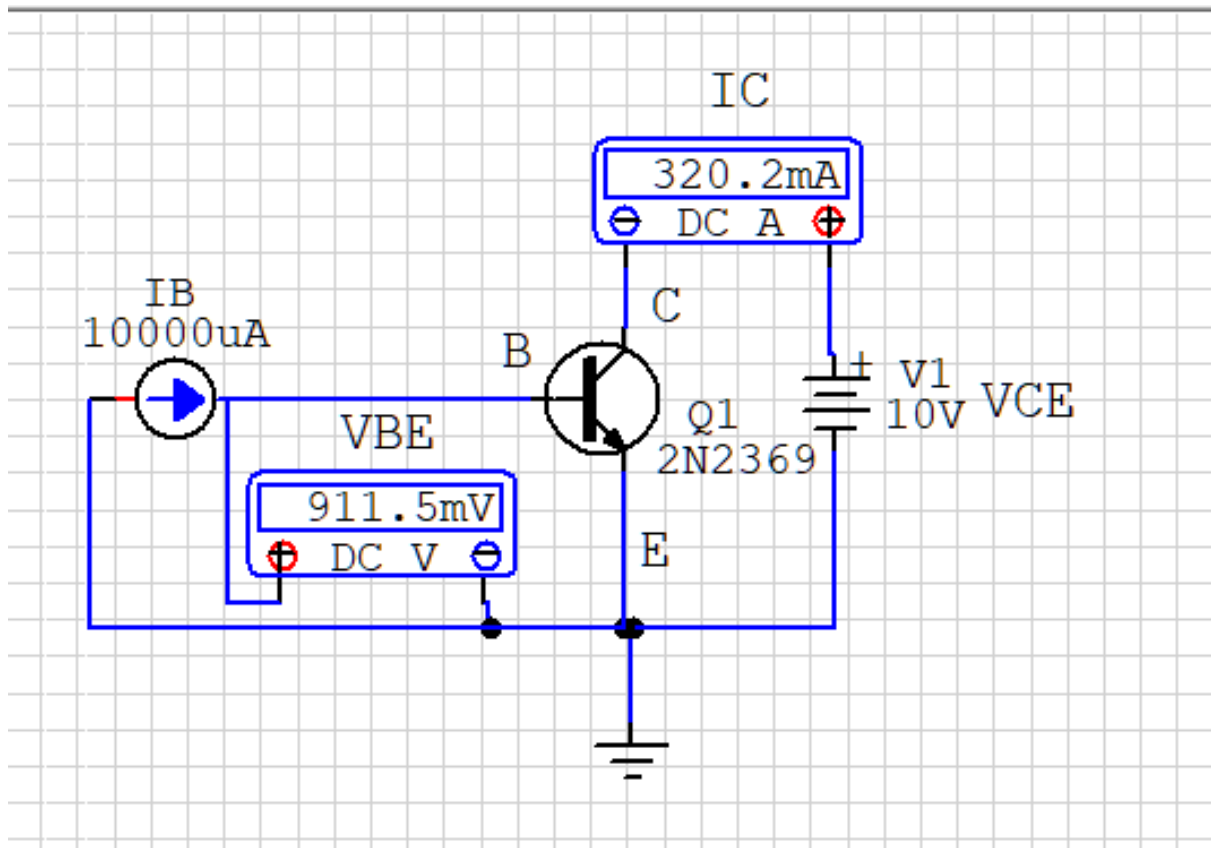


Caracteristici statice ale tranzistorului bipolar conexiunea Emitor Comun

1. Circuitul (Am folosit tranzistorul 2N2369)



2. Tabelul de valori

a.

I_B (μA)	V_{BE} (mV)	I_C (mA)
0	0	0
1	536	0.022
2	565	0.068
5	599	0.26
10	623.4	0.647
20	645.8	1.512
50	674	4.281
100	695.1	8.906
200	716.8	17.65
500	747.9	40.1

Licu Mihai George
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IB (μA)	VBE (mV)	IC (mA)
1000	774.7	69.83
2000	806.2	115.5
5000	858.7	210.6
10000	911.5	320.2

b. $I_B = 10\mu\text{A}$

VCE (V)	IC (mA)
0	0
0.1	0.396
0.2	0.56
0.3	0.565
0.4	0.566
0.5	0.567
1	0.571
2	0.58
4	0.597
7	0.622
10	0.647

c. $I_B = 20\mu\text{A}$

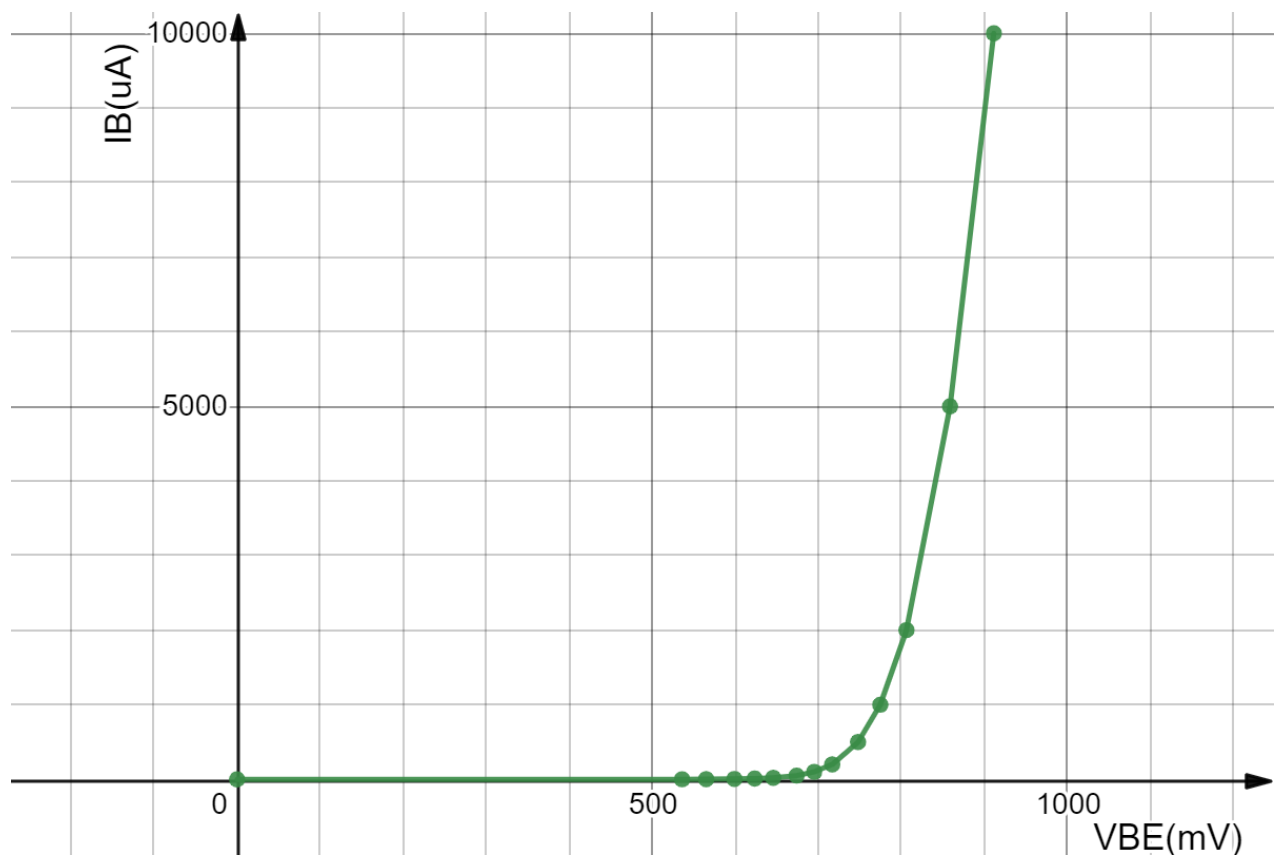
VCE (V)	IC (mA)
0	0
0.1	0.897
0.2	1.306
0.3	1.321
0.4	1.323
0.5	1.325
1	1.335
2	1.354
4	1.394
7	1.453
10	1.512

d. $I_B = 50\mu A$

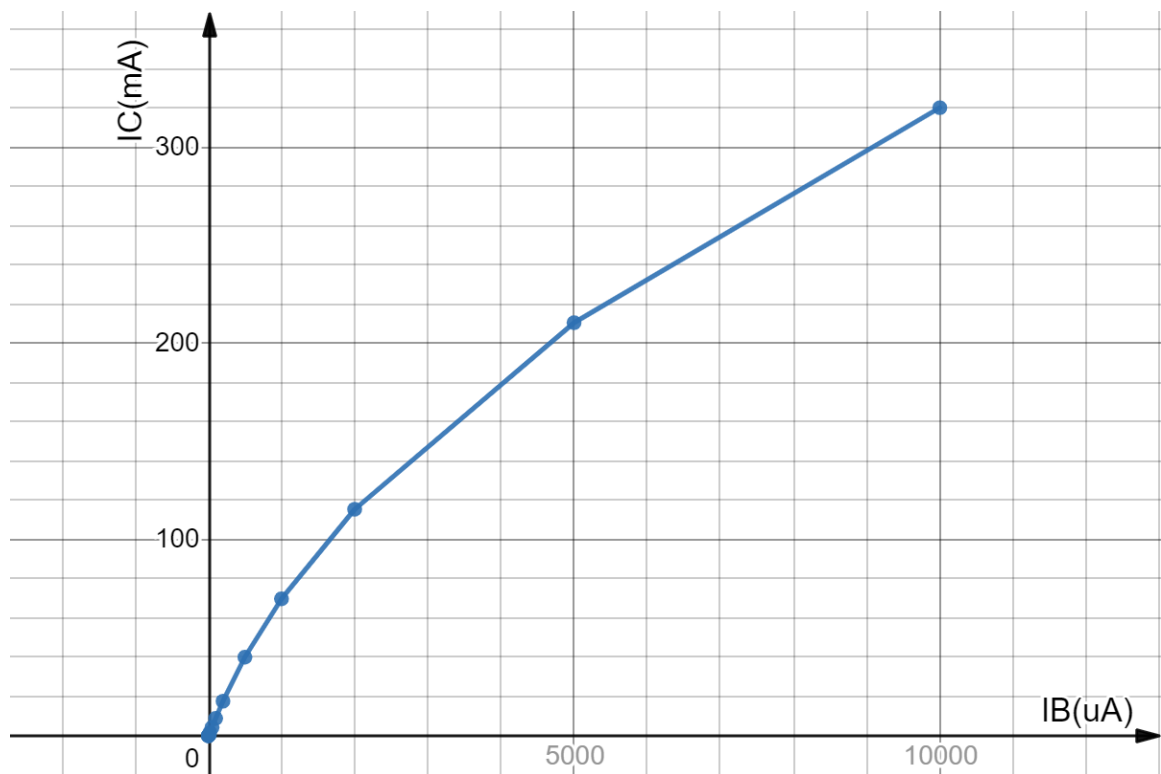
VCE (V)	IC (mA)
0	0
0.1	2.464
0.2	3.692
0.3	3.737
0.4	3.743
0.5	3.749
1	3.777
2	3.833
4	3.945
7	4.113
10	4.281

3. Grafice

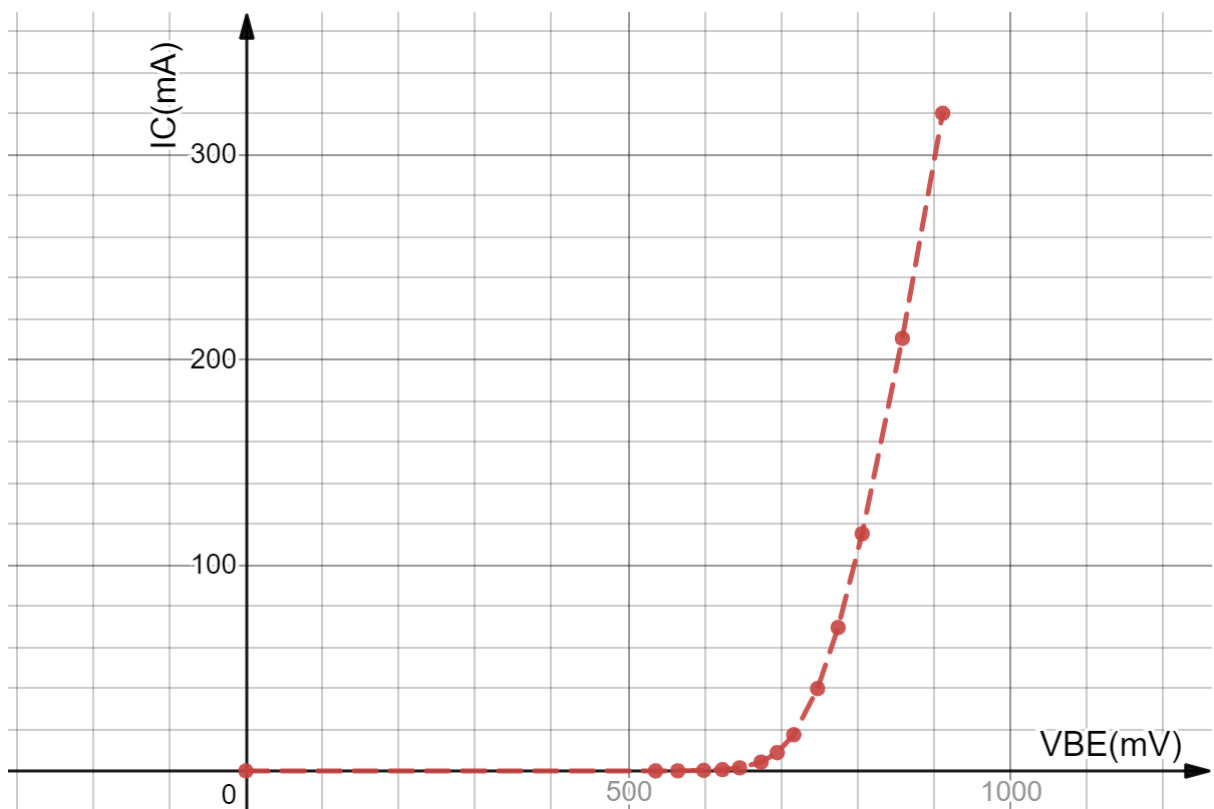
a. Caracteristica de intrare



b. Caracteristica de transfer 1



c. Caracteristica de transfer 2



d. Caracteristica de iesire

