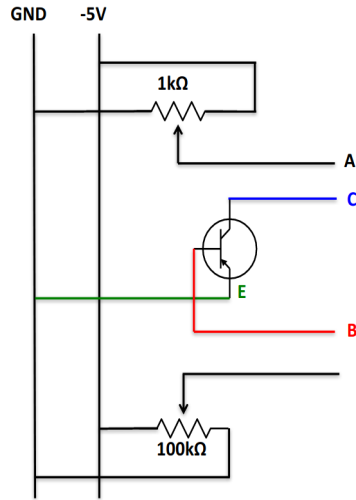


Misura della caratteristica di uscita di un BJT P-N-P in configurazione a Emettitore comune

Il circuito utilizzato per la prova è il seguente :



Gli strumenti utilizzati nella prova sono:

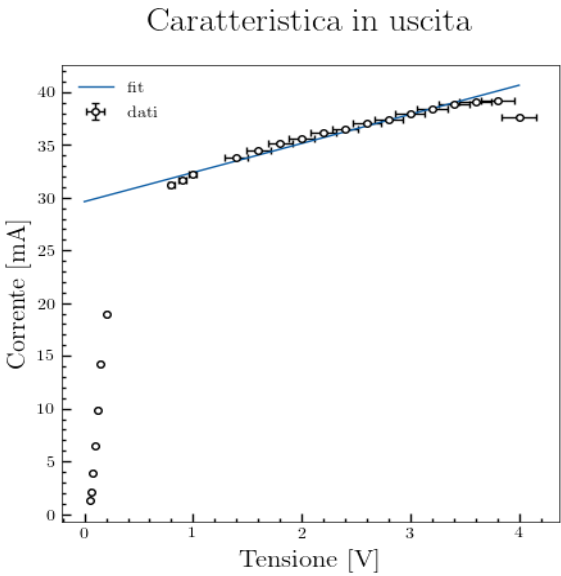
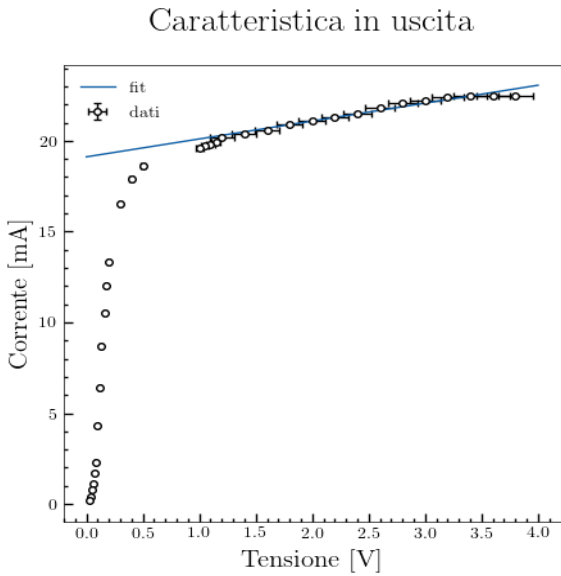
- (i) Potenziometro da $1k\Omega$
- (ii) Potenziometro da $100k\Omega$
- (iii) Transistor BJT 2N3906(BU) (Si PNP)
- (iv) Breadboard generica
- (v) Oscilloscopio GOS-652 GW
- (vi) Multimetro digitale FLUKE 77
- (vii) Generatore di tensione continua IPS 3303 ISO-TECH

I dati misurati con corrente di base 100mA e 200mA sono:

Corrente di base 100mA				
V[V]	$\delta V[V]$	I[mA]	$\delta I[mA]$	fondoscala[V]
3.8	0.2	22.5	0.3	1
3.6	0.1	22.5	0.3	1
3.4	0.1	22.5	0.3	1
3.2	0.1	22.4	0.3	1
3	0.1	22.2	0.3	1
2.8	0.1	22.1	0.3	1
2.6	0.1	21.8	0.3	1
2.4	0.1	21.5	0.3	1
2.2	0.1	21.3	0.3	1
2	0.1	21.1	0.3	1
1.8	0.1	20.9	0.3	1
1.6	0.1	20.6	0.3	1
1.4	0.1	20.4	0.3	1
1.2	0.1	20.2	0.3	1
1.15	0.04	19.9	0.3	0.2
1.1	0.04	19.8	0.3	0.2
1.05	0.04	19.7	0.3	0.2
1	0.04	19.6	0.3	0.2
0.5	0.02	18.6	0.3	0.1
0.4	0.02	17.9	0.3	0.1
0.3	0.01	16.5	0.2	0.1
0.2	0.01	13.3	0.2	0.1
0.18	0.01	12	0.2	0.1
0.16	0.01	10.5	0.2	0.1
0.13	0.01	8.7	0.1	0.1
0.12	0.01	6.4	0.1	0.1
0.1	0.01	4.3	0.06	0.1
0.08	0.003	2.3	0.03	0.02
0.07	0.003	1.7	0.03	0.02
0.06	0.003	1.1	0.02	0.02
0.05	0.003	0.8	0.01	0.02
0.04	0.002	0.4	0.006	0.02
0.03	0.002	0.2	0.003	0.02

Corrente di base 200mA				
V[V]	$\delta V[V]$	I[mA]	$\delta I[mA]$	fondoscala[V]
4	0.2	37.6	0.6	1
3.8	0.2	39.2	0.6	1
3.6	0.1	39.1	0.6	1
3.4	0.1	38.8	0.6	1
3.2	0.1	38.4	0.6	1
3	0.1	37.9	0.6	1
2.8	0.1	37.4	0.6	1
2.6	0.1	37	0.6	1
2.4	0.1	36.5	0.5	1
2.2	0.1	36.1	0.5	1
2	0.1	35.6	0.5	1
1.8	0.1	35.1	0.5	1
1.6	0.1	34.5	0.5	1
1.4	0.1	33.8	0.5	1
1	0.04	32.2	0.5	0.2
0.9	0.03	31.7	0.5	0.2
0.8	0.03	31.2	0.5	0.2
0.2	0.01	18.9	0.3	0.1
0.15	0.01	14.2	0.2	0.1
0.12	0.01	9.9	0.1	0.1
0.1	0.004	6.5	0.1	0.02
0.08	0.003	3.9	0.06	0.02
0.06	0.003	2.1	0.03	0.02
0.05	0.003	1.3	0.02	0.02

I loro rispettivi grafici sono:



I risultati finali sono: