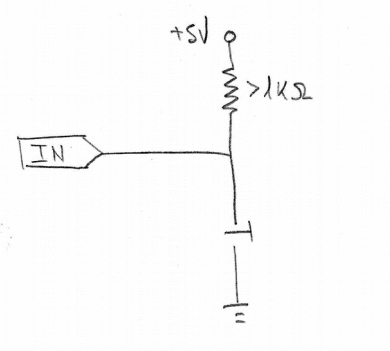
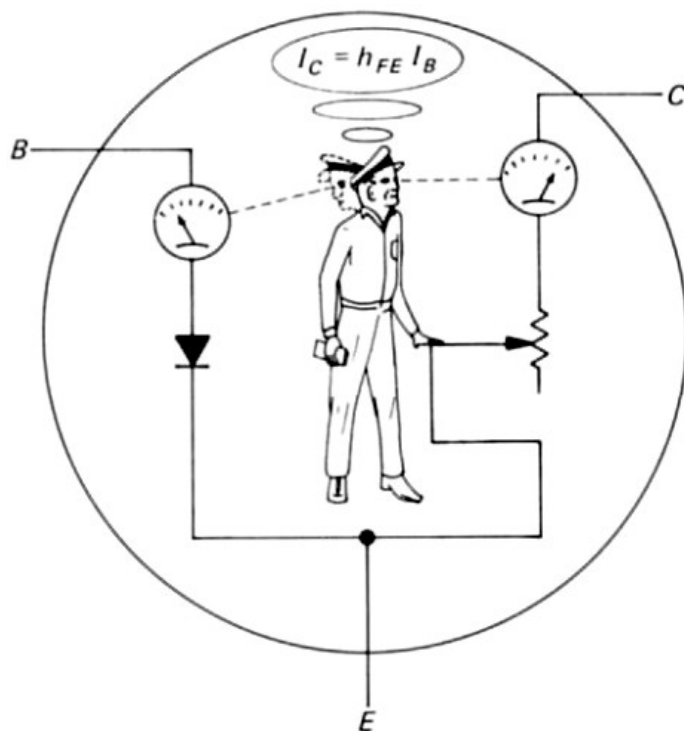
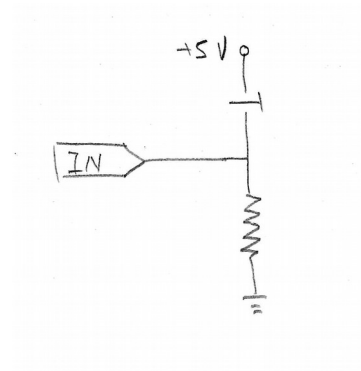


Resistencias Pull-Up y



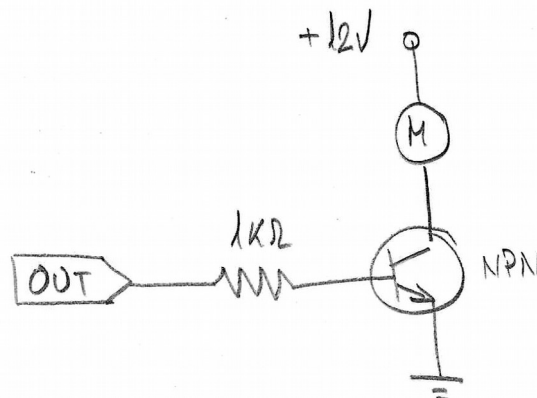
Pull-Down



El “**Hombre Transistor**” observa la corriente de la base y ajusta el reostato INTENTANDO mantener la corriente de salida h_{FE} veces más grande.

h_{FE} está entre 35 y 300 para el P2N2222A

Transistor como interruptor



P2N2222A

Amplifier Transistors

NPN Silicon

Features

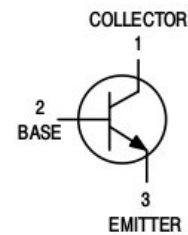
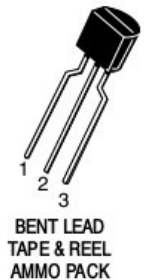
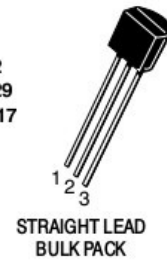
- These are Pb-Free Devices*

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	40	Vdc
Collector-Base Voltage	V_{CBO}	75	Vdc
Emitter-Base Voltage	V_{EBO}	6.0	Vdc
Collector Current - Continuous	I_C	600	mA dc
Total Device Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C	P_D	625 5.0	mW mW/ $^\circ\text{C}$
Total Device Dissipation @ $T_C = 25^\circ\text{C}$ Derate above 25°C	P_D	1.5 12	W mW/ $^\circ\text{C}$
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-55 to +150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	200	$^\circ\text{C/W}$


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**TO-92
CASE 29
STYLE 17**


ON CHARACTERISTICS

DC Current Gain ($I_C = 0.1 \text{ mA dc}, V_{CE} = 10 \text{ Vdc}$) ($I_C = 1.0 \text{ mA dc}, V_{CE} = 10 \text{ Vdc}$) ($I_C = 10 \text{ mA dc}, V_{CE} = 10 \text{ Vdc}$) ($I_C = 10 \text{ mA dc}, V_{CE} = 10 \text{ Vdc}, T_A = -55^\circ\text{C}$) ($I_C = 150 \text{ mA dc}, V_{CE} = 10 \text{ Vdc}$) (Note 1) ($I_C = 150 \text{ mA dc}, V_{CE} = 1.0 \text{ Vdc}$) (Note 1) ($I_C = 500 \text{ mA dc}, V_{CE} = 10 \text{ Vdc}$) (Note 1)	h_{FE}	35 50 75 35 100 50 40	- - - - 300 - -	-
Collector-Emitter Saturation Voltage (Note 1) ($I_C = 150 \text{ mA dc}, I_B = 15 \text{ mA dc}$) ($I_C = 500 \text{ mA dc}, I_B = 50 \text{ mA dc}$)	$V_{CE(sat)}$	- -	0.3 1.0	Vdc
Base-Emitter Saturation Voltage (Note 1) ($I_C = 150 \text{ mA dc}, I_B = 15 \text{ mA dc}$) ($I_C = 500 \text{ mA dc}, I_B = 50 \text{ mA dc}$)	$V_{BE(sat)}$	0.6 -	1.2 2.0	Vdc