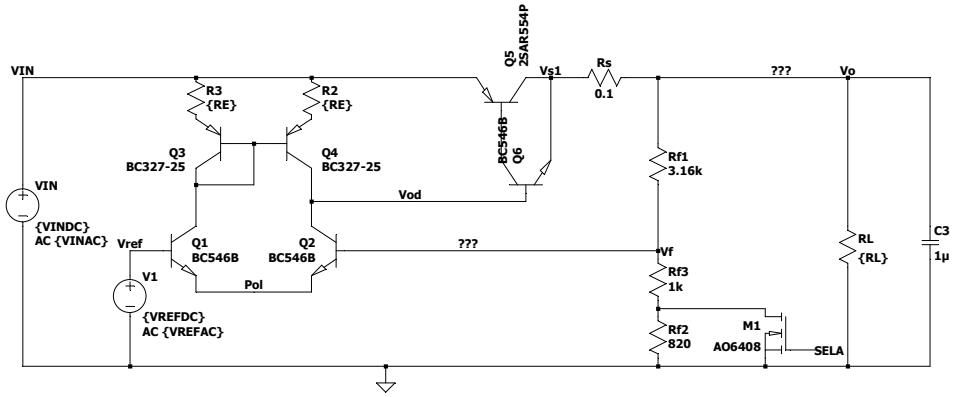
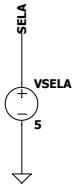
```
.param RE 470
.param VINDC 6.35
.param VINAC 1
.param VREFDC 1.2
.param VREFAC 0
;param RL 10
;step param RE 1k 1.5k 100
.step param RL 100 0.1 0.25
;step param VINDC 4 32 0.5
.op
;ac dec 20 0.1 10Meg
;dc VIN 1 12
;tran 0 1m 0 1u
```

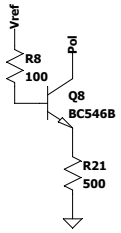



```
Mido regulacion de linea

.meas DC Vo1rl FIND V(Vo) AT=6.25
.meas DC Vo2rl FIND V(Vo) AT=6.45
.meas DC RegLin PARAM ((Vo2rl-Vo1rl)/0.2)

Mido regulacion de carga

.meas OP Vo1rc FIND V(Vo) AT 100
.meas OP Vo2rc FIND V(Vo) AT 10
.meas OP Io1rc FIND I(RL) AT 100
.meas OP Io2rc FIND I(RL) AT 10
 .meas OP RegCar PARAM (-(Vo2rc-Vo1rc)/(Io2rc-Io1rc))

Mido eficiencia

-100*((V(vo)*I(RL))/(V(VIN)*I(VIN)))


.include TL081.txt
.lib opamp.sub
```

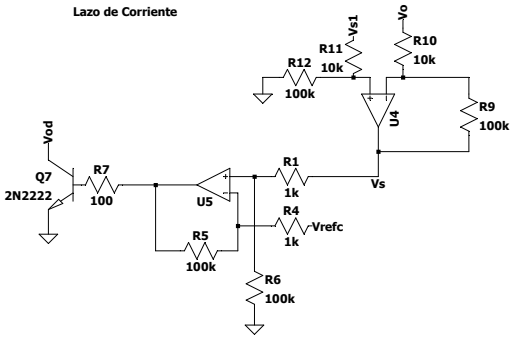
Selector



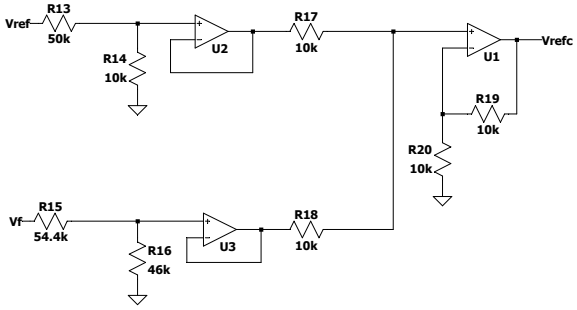
Fuente de corriente de polarizacion



Lazo de Corriente



Referencia Lazo de Corriente



Sumador