TR1
Type=lin
Start=0
Stop=1 ms

SW1
Sim=TR1
Type=list
Param=Bf
Values=[30; 100; 300]

R1
R=22 Ohm

1/4 W

Pr1

Very rough VSMB2948SL approximation

Vir

D1
Is=1e-17 A
N=1.3
Cj0=21 pF
Rs=0.5 Ohm

+ V1
− U=4.2 V

C1
C=33 uF

Ron(gpio)

R4
R=100

R5
R=1 kOhm

Vt

+ V2
− U=3.3 V

R6
R=10 kOhm

S1
time=100 us

T2
Bf=Bf

T1
Bf=Bf

Dimension for 1 W peak
Maybe ESR10EZPJ3R3

R3
R=3.3 Ohm
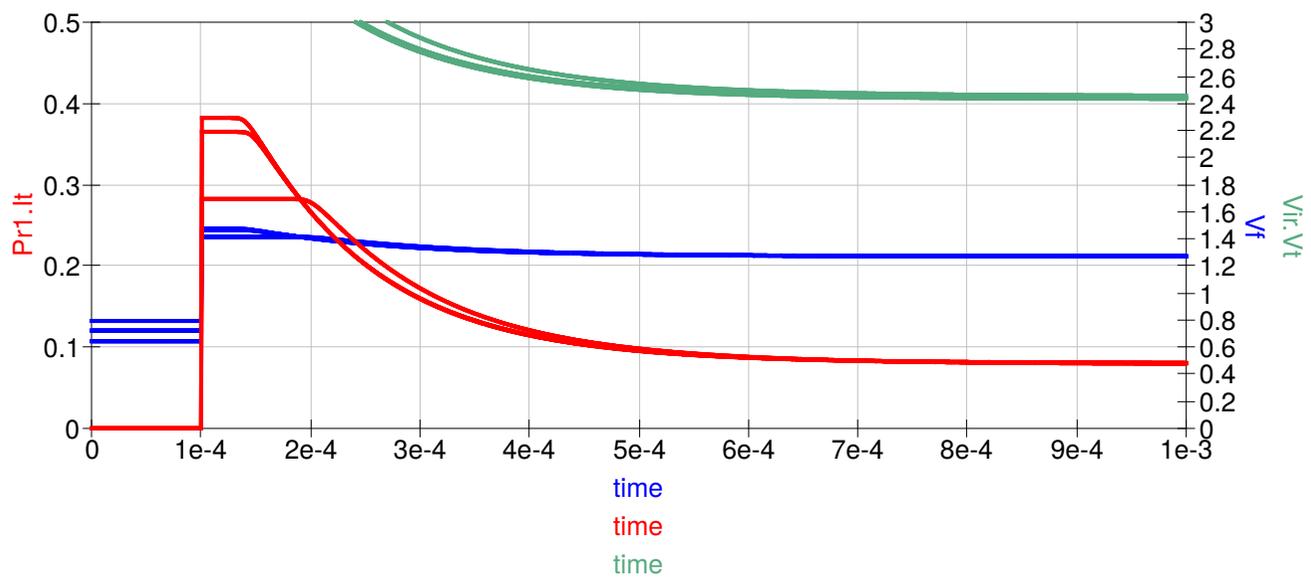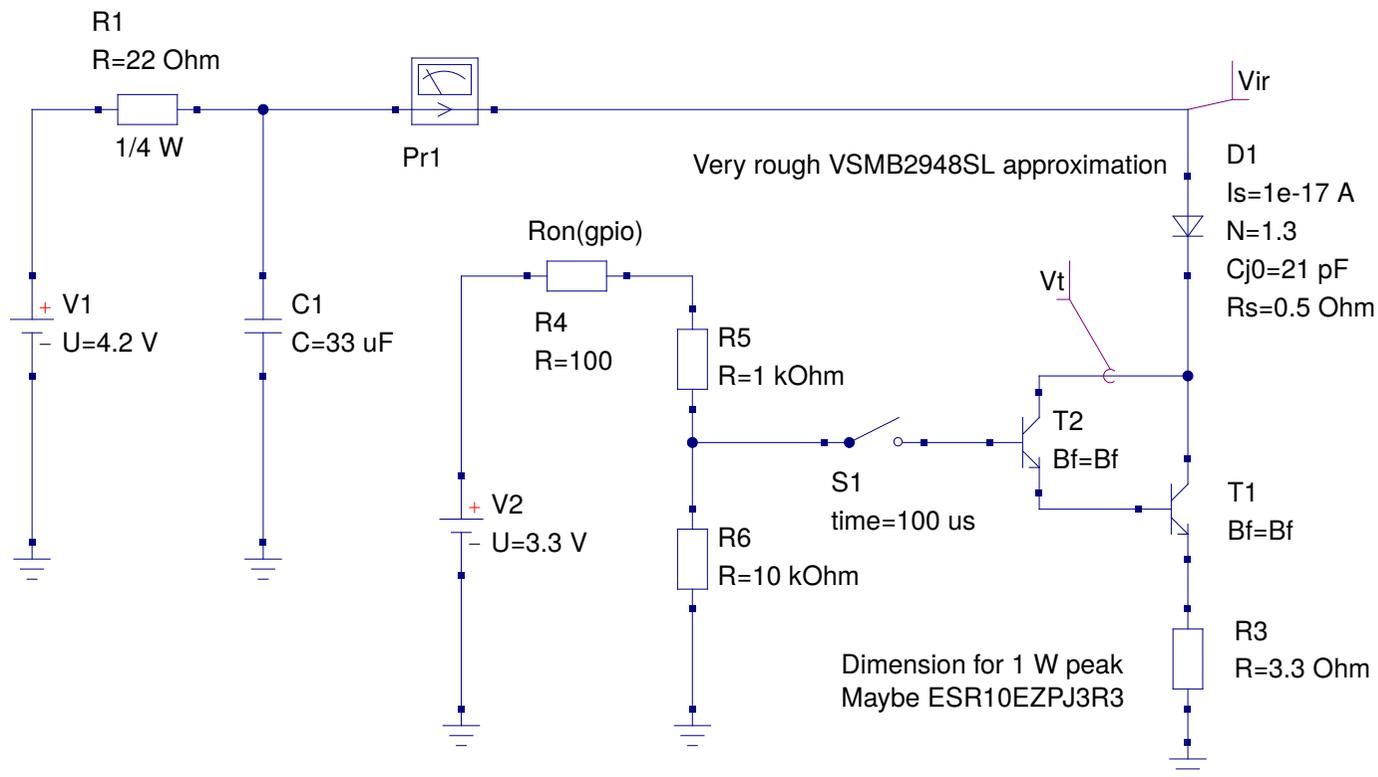
Equation

Eqn1
Vf=Vir.Vt-Vt.Vt

time
time
time