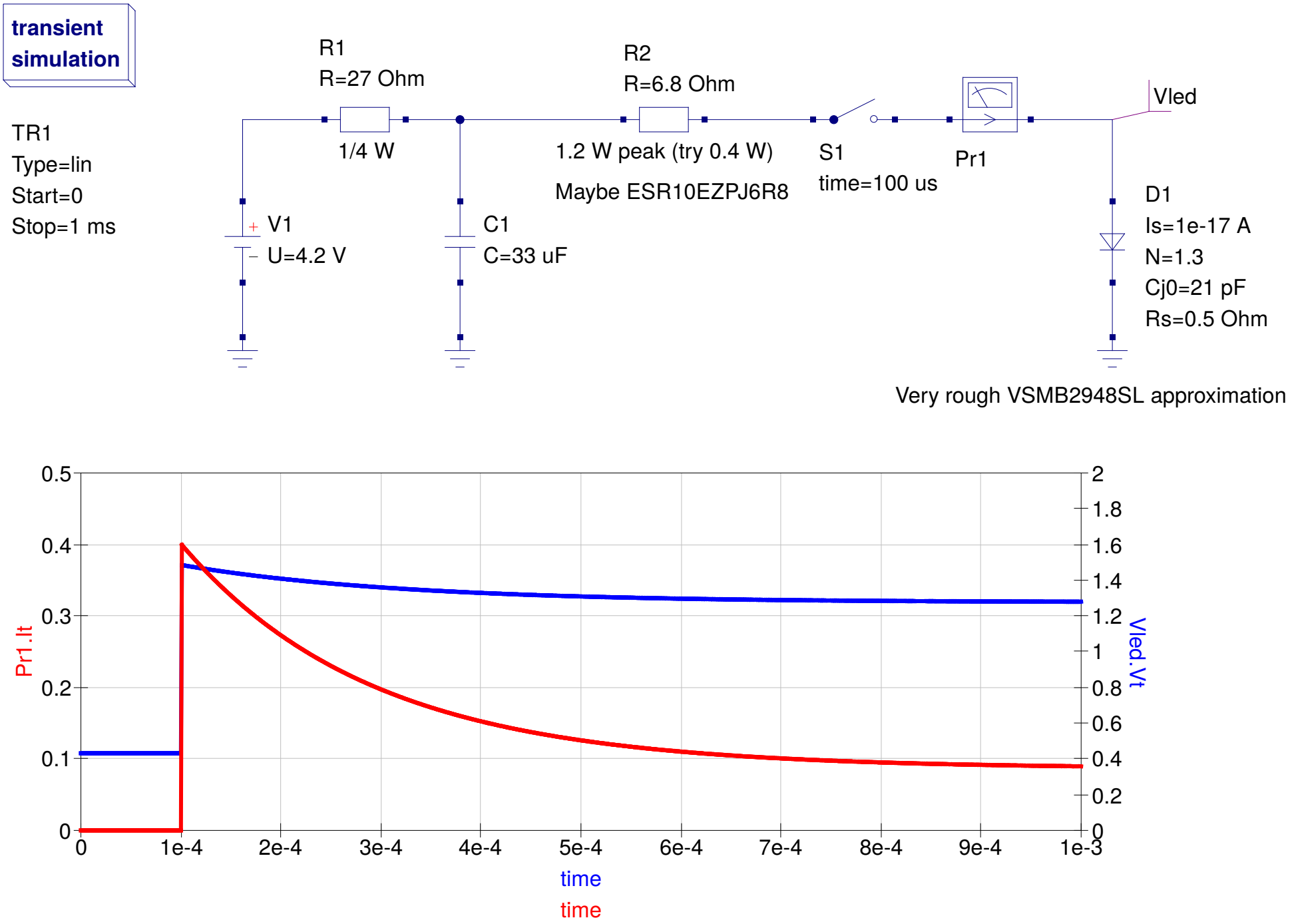
transient
simulation
TR1
Type=lin
Start=0
Stop=1 ms
R1
R=27 Ohm
1/4 W
R2
R=6.8 Ohm
1.2 W peak (try 0.4 W)
Maybe ESR10EZPJ6R8
S1
time=100 us
Pr1
Vled
V1
U=4.2 V
C1
C=33 uF
D1
Is=1e-17 A
N=1.3
Cj0=21 pF
Rs=0.5 Ohm
Very rough VSMB2948SL approximation
Pr1.It
Vled.Vt
time
time
0.5
0.4
0.3
0.2
0.1
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1e-4
2e-4
3e-4
4e-4
5e-4
6e-4
7e-4
8e-4
9e-4
1e-3