

Name: Rahul Vemuri

Roll No:33

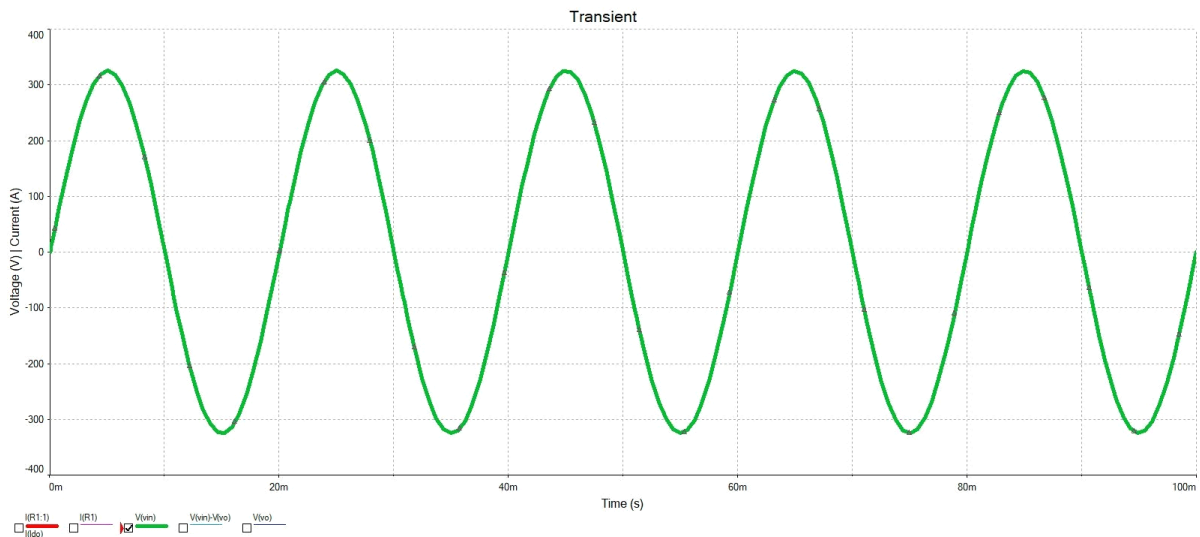
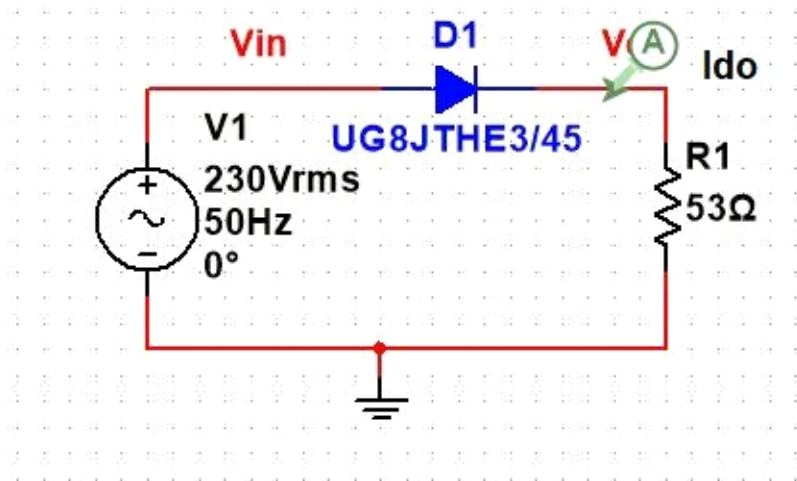
Class:D16A

Experiment No. 3

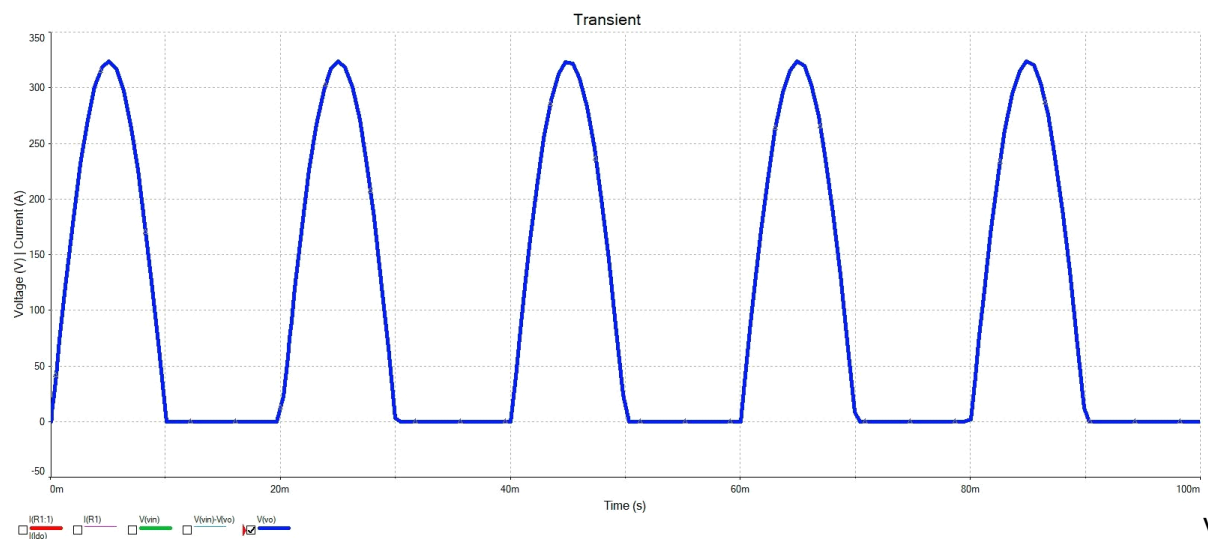
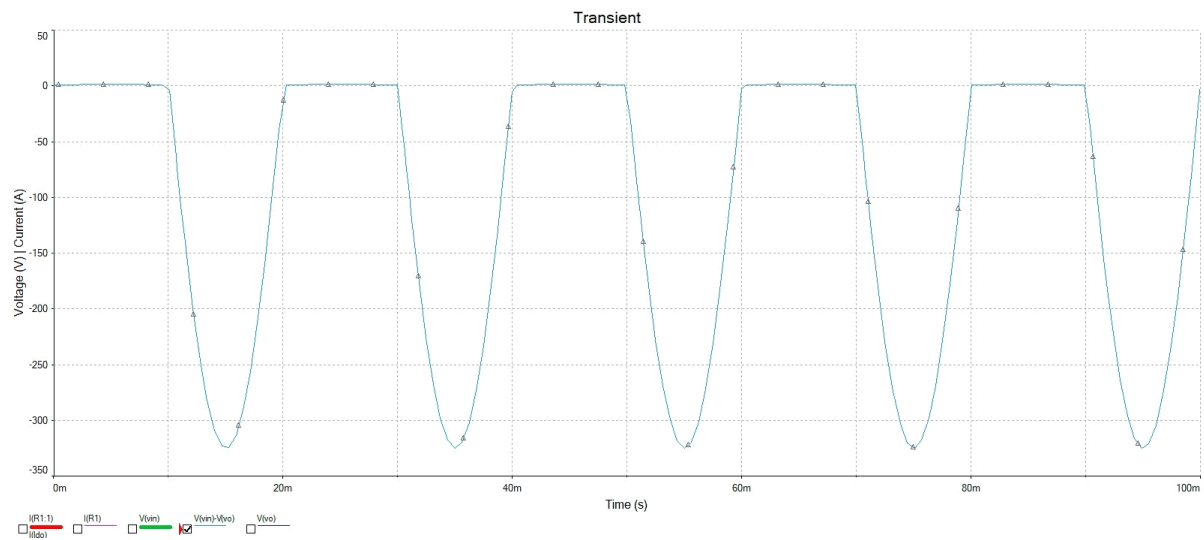
Aim: - To Simulate half wave and full wave uncontrolled rectifier with R and RL load

Half Wave rectifier

With R load



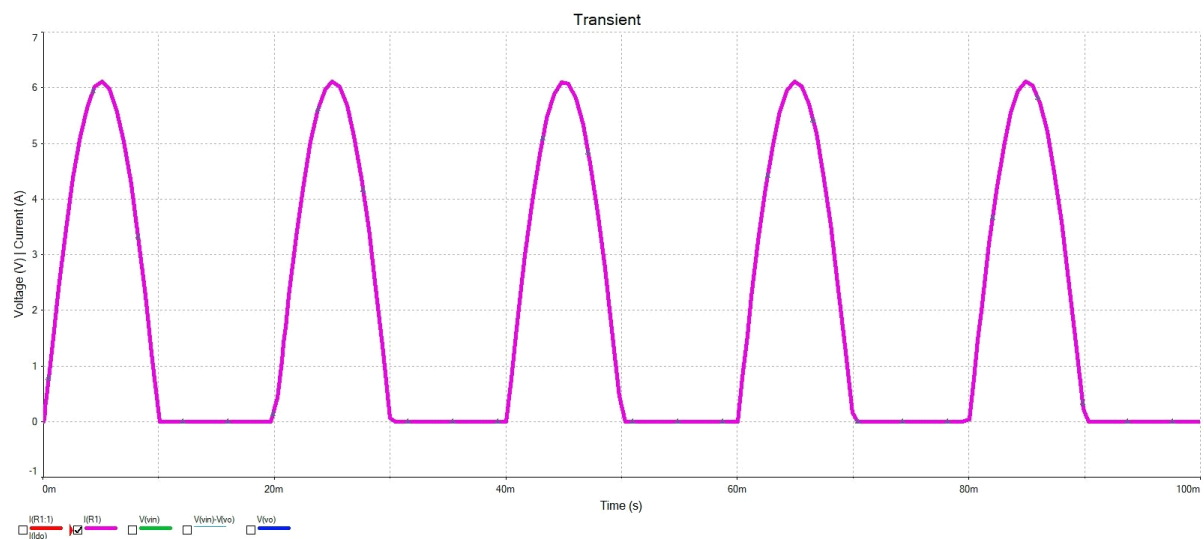
Vin



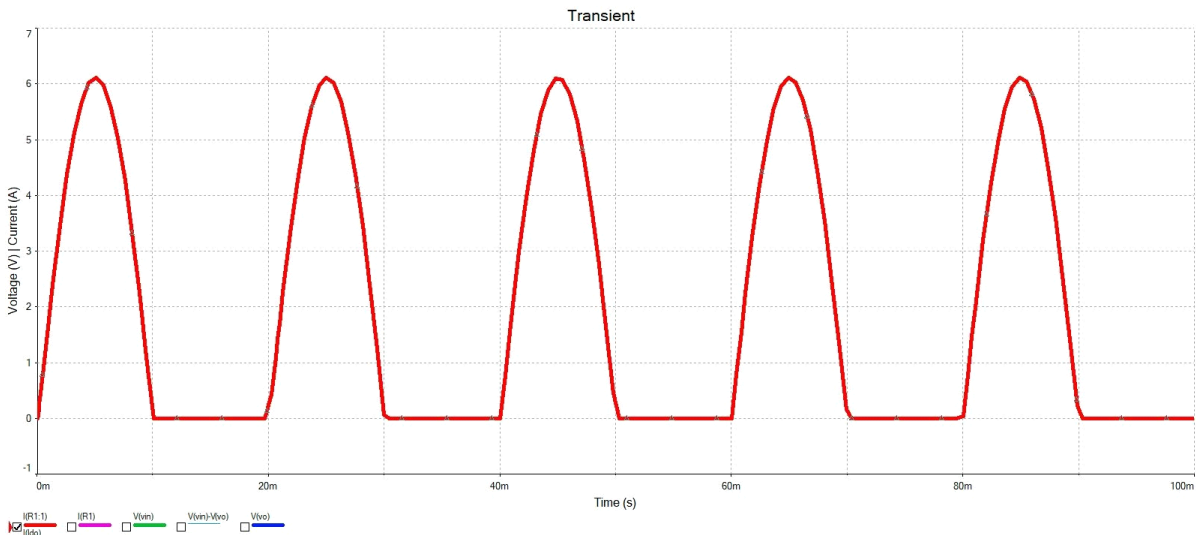
Vin

-Vo

Vo

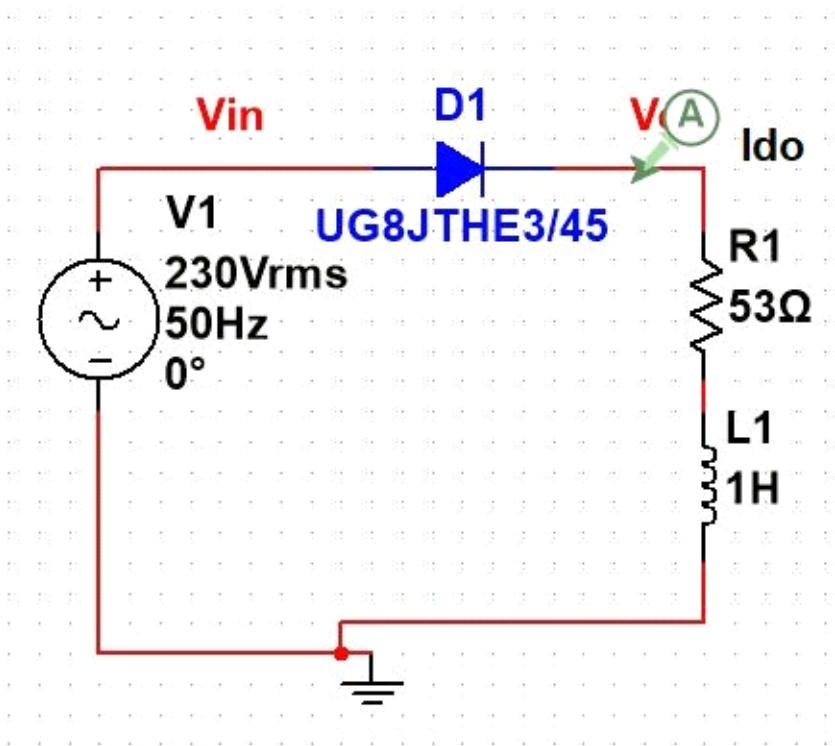


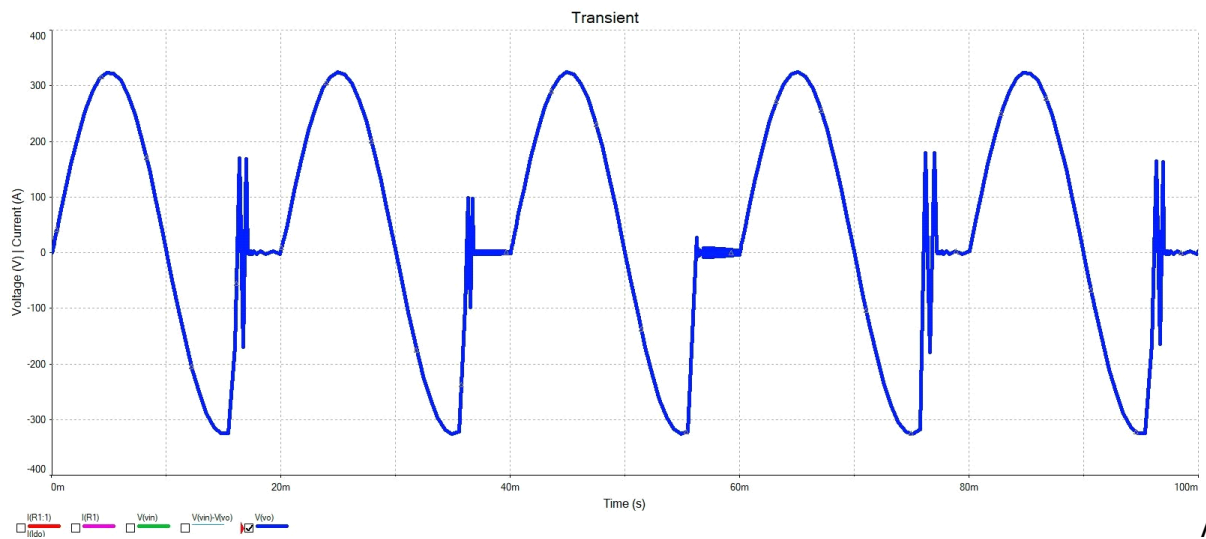
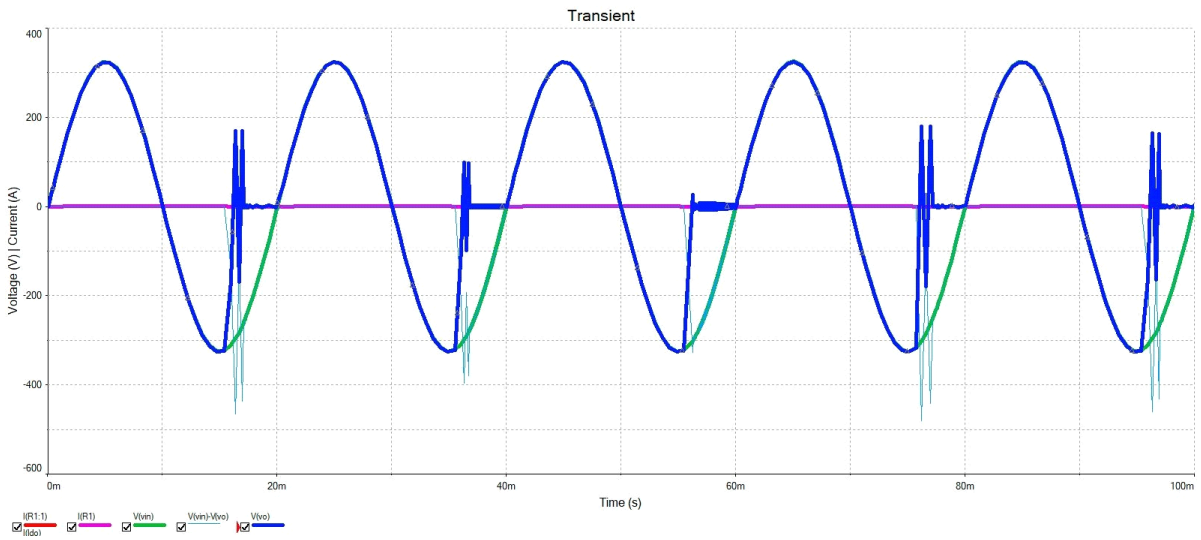
Ir1



id0

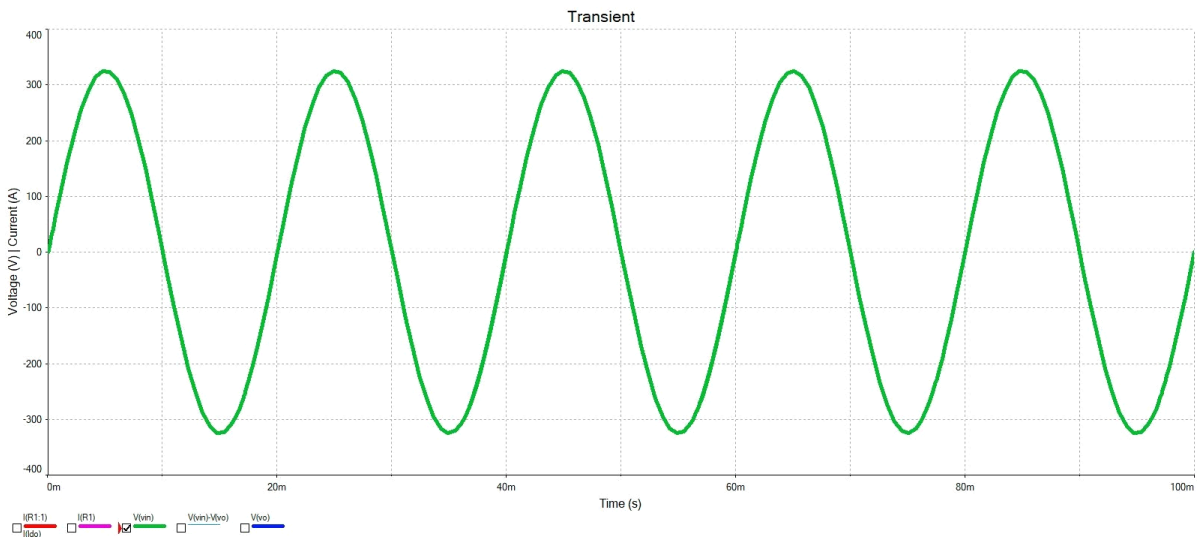
With RL load



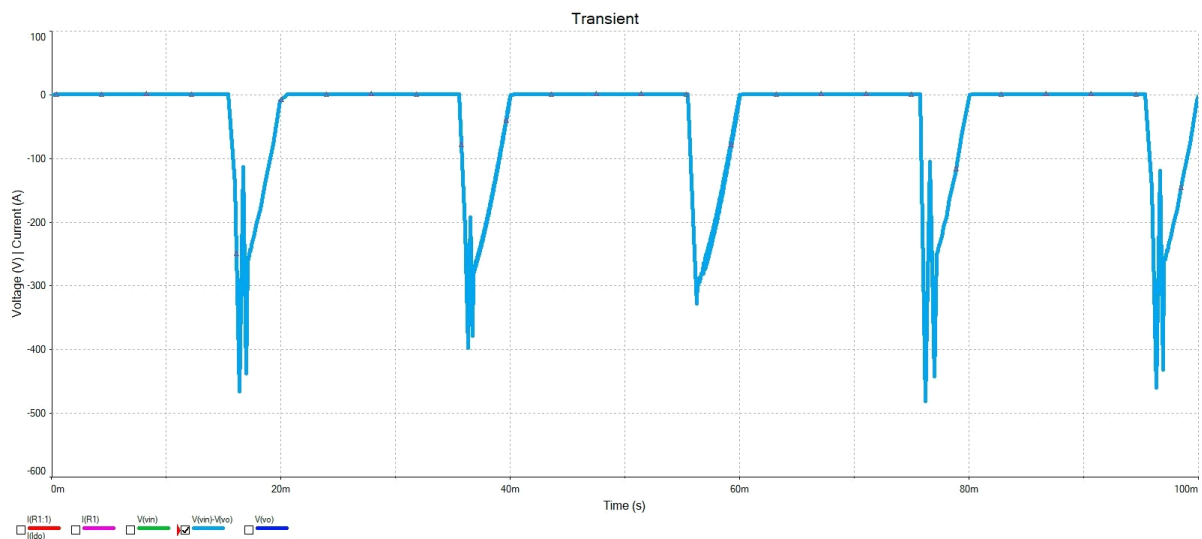
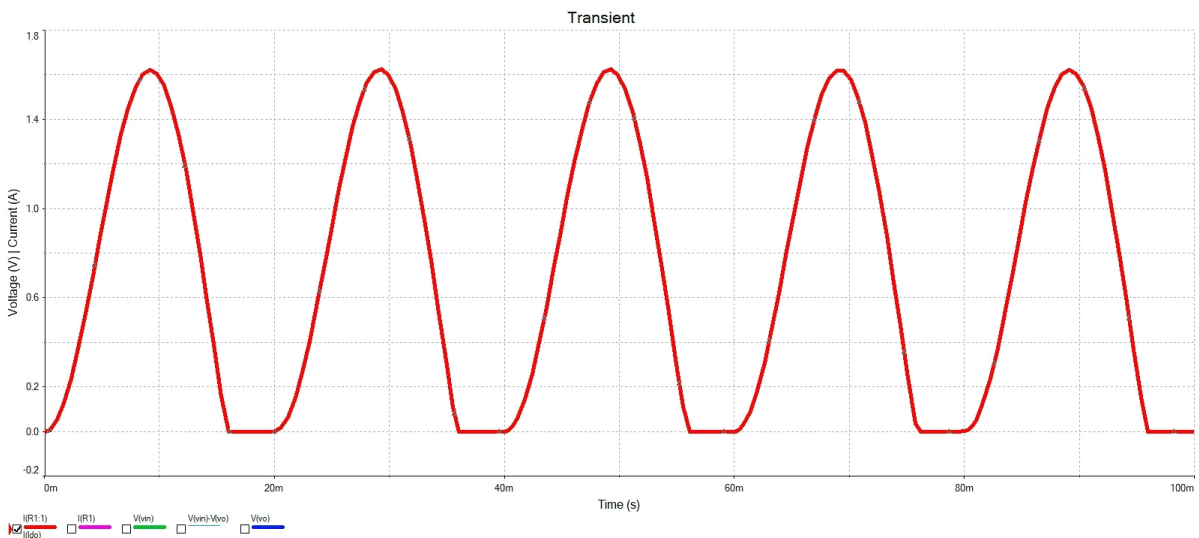


All

VO

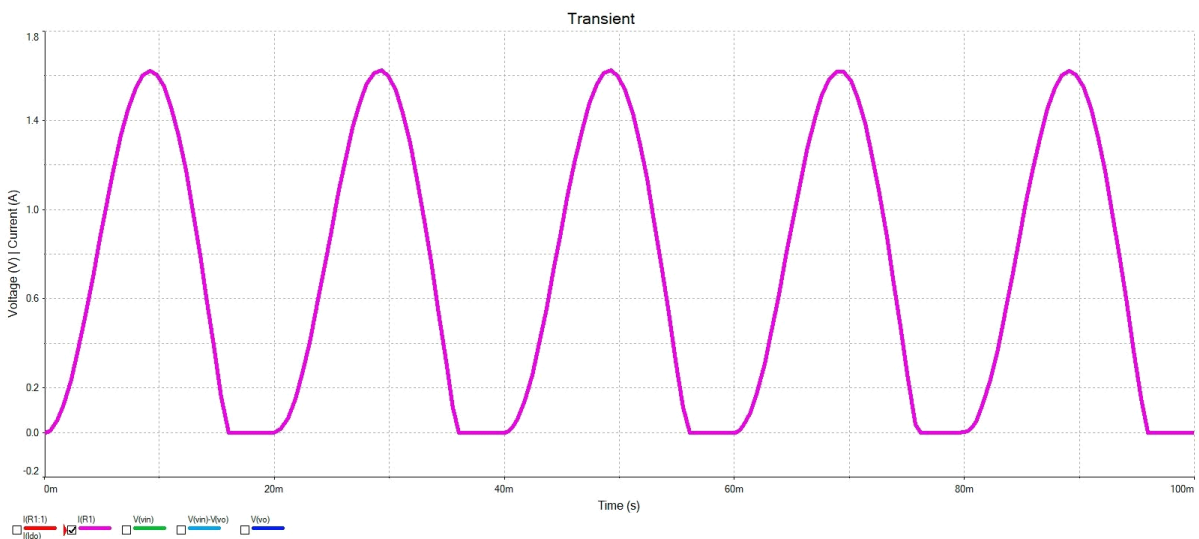


vin



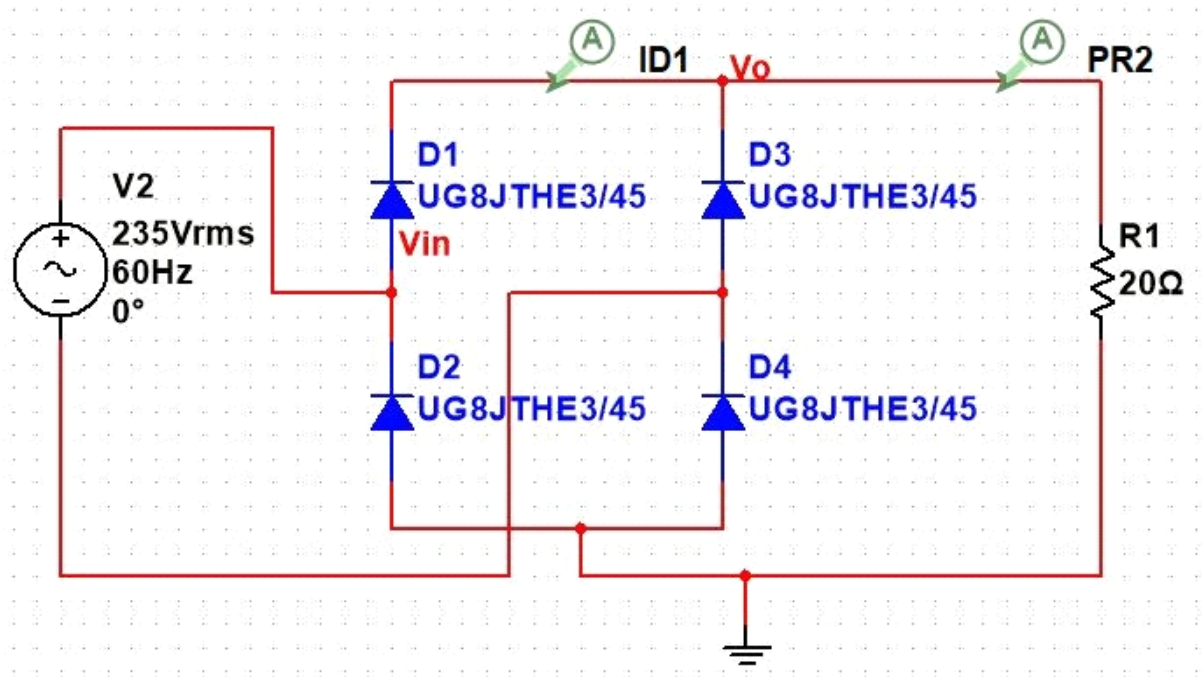
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vin-vo

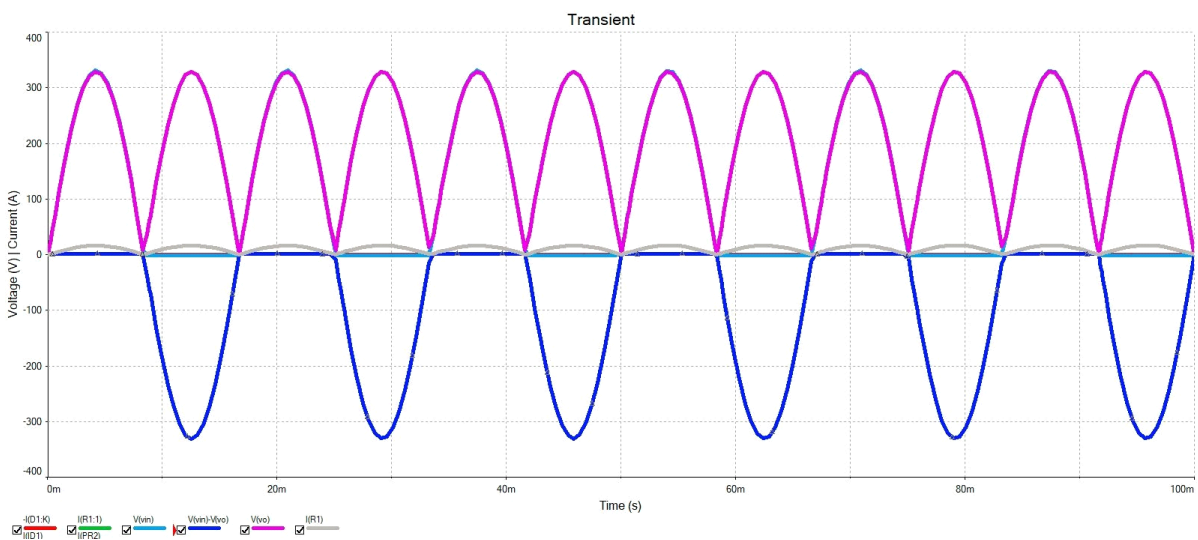


ir1

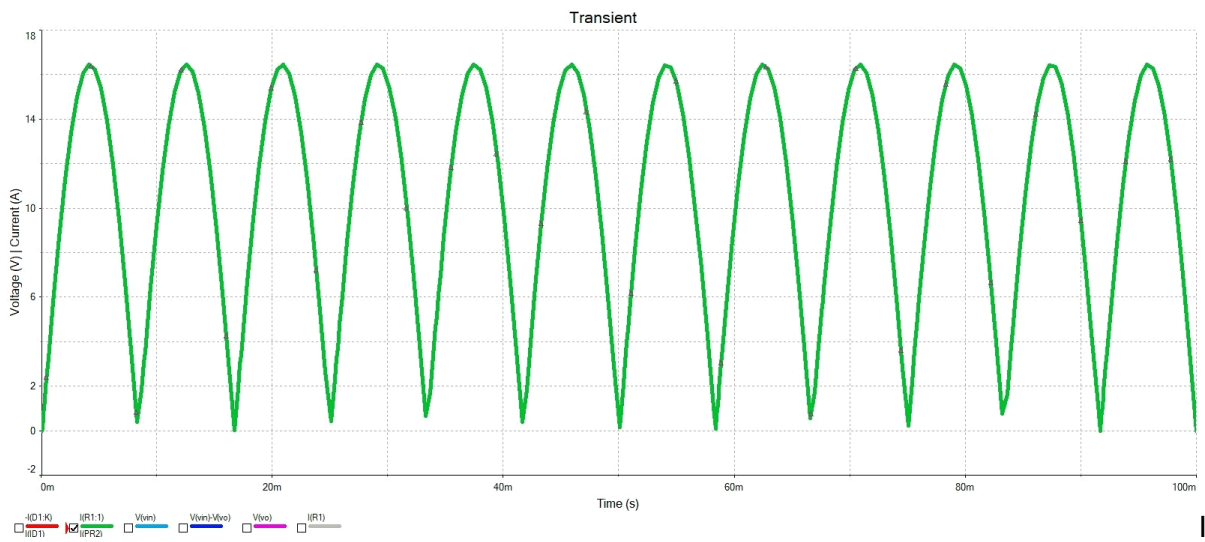
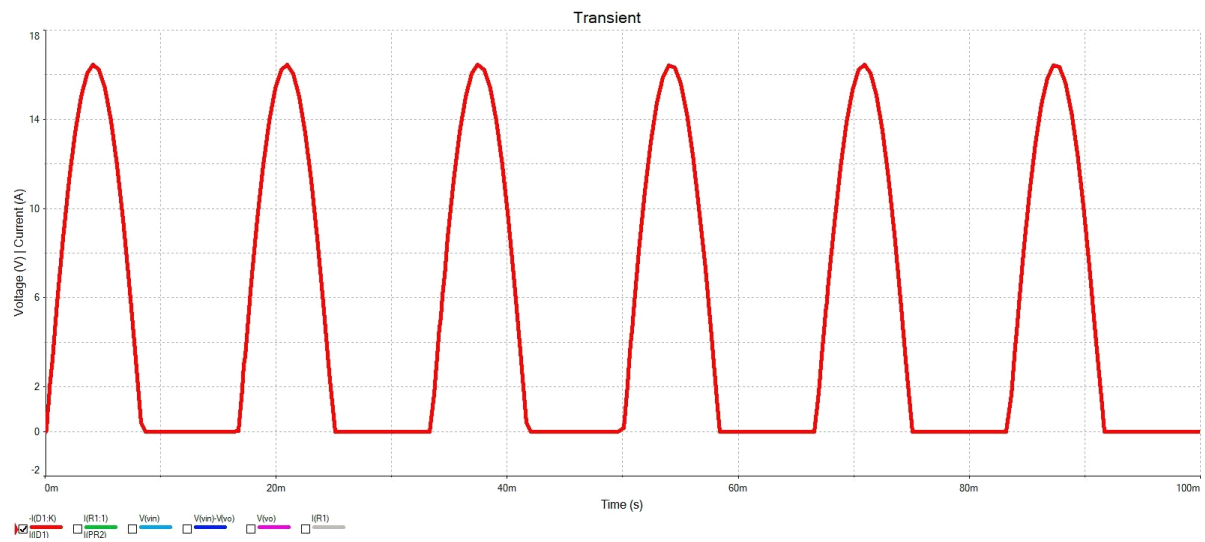
Full Wave rectifier



With R load

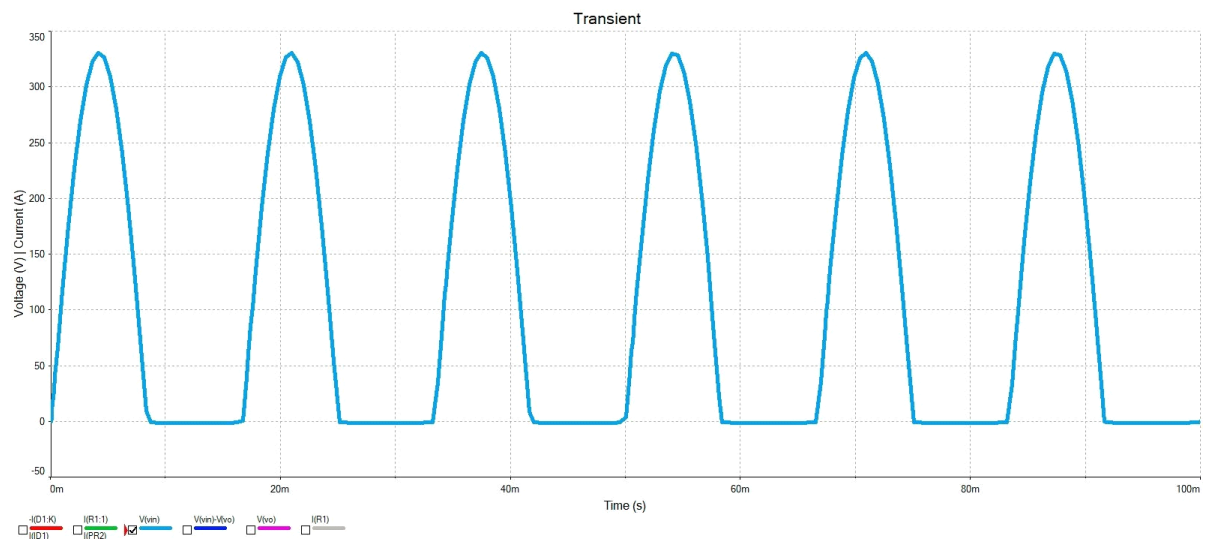


All

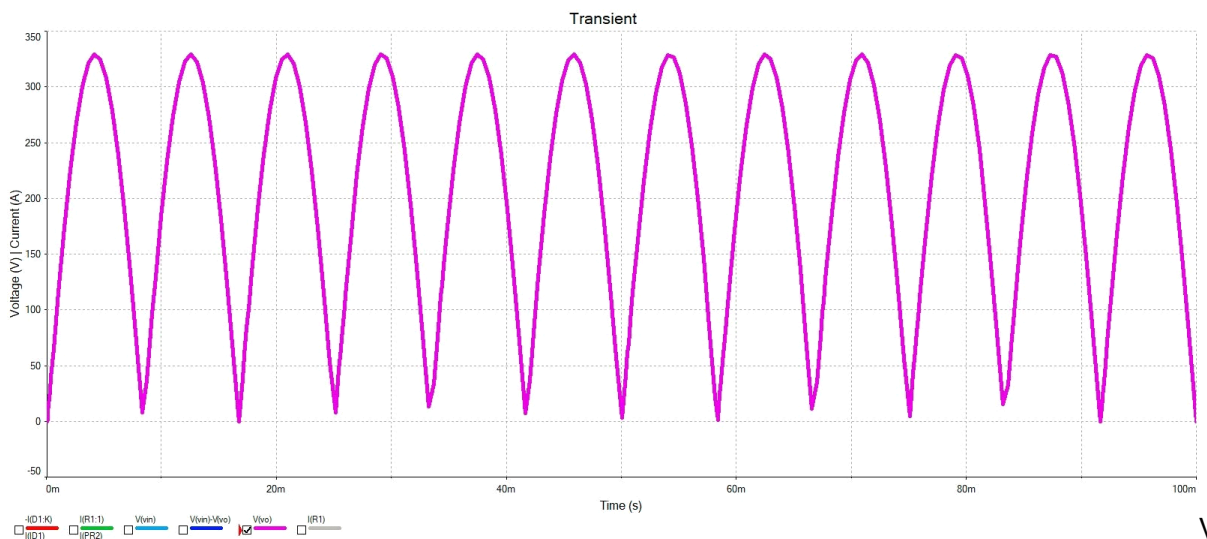
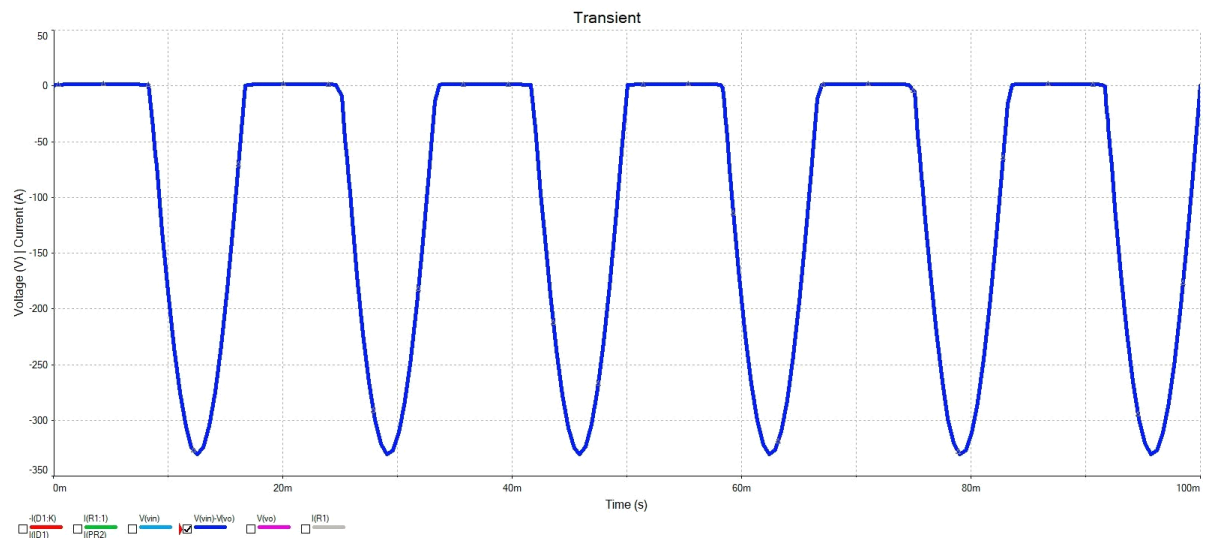


Id1

Ir1



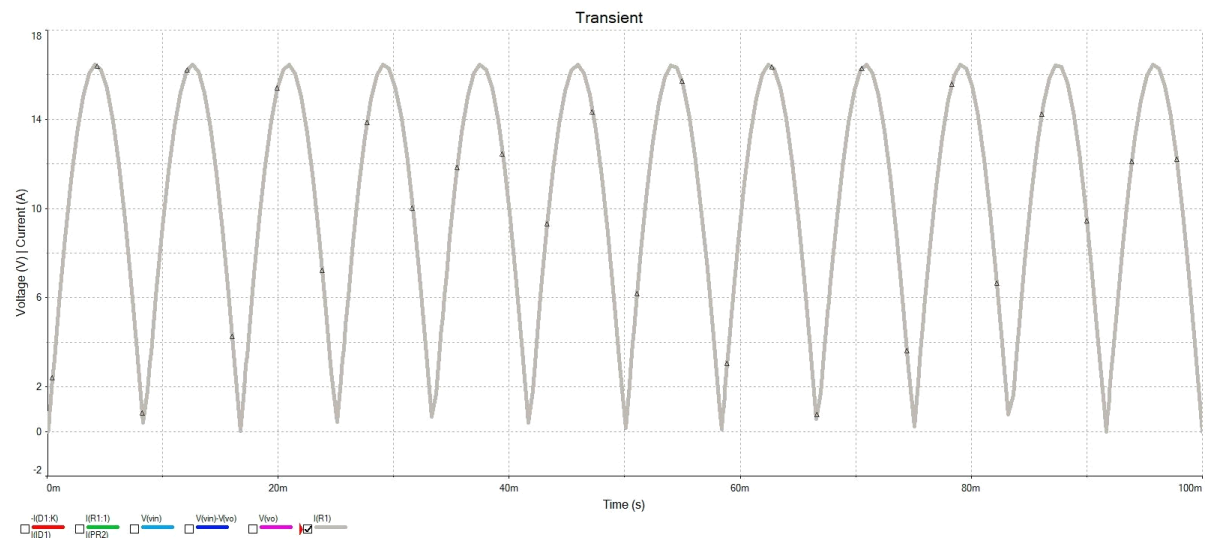
Vin



Vin

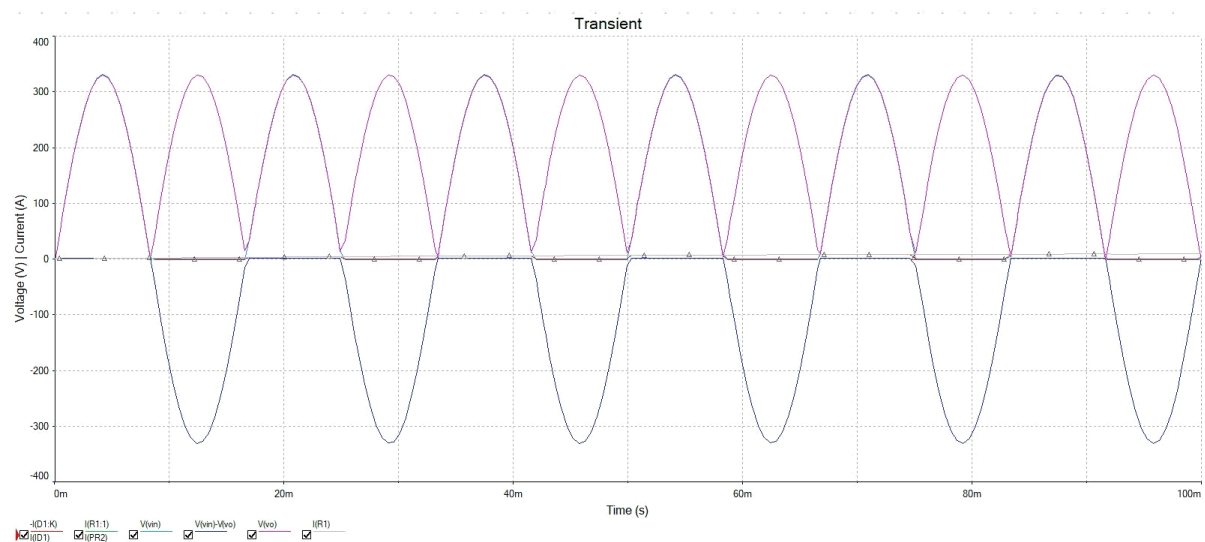
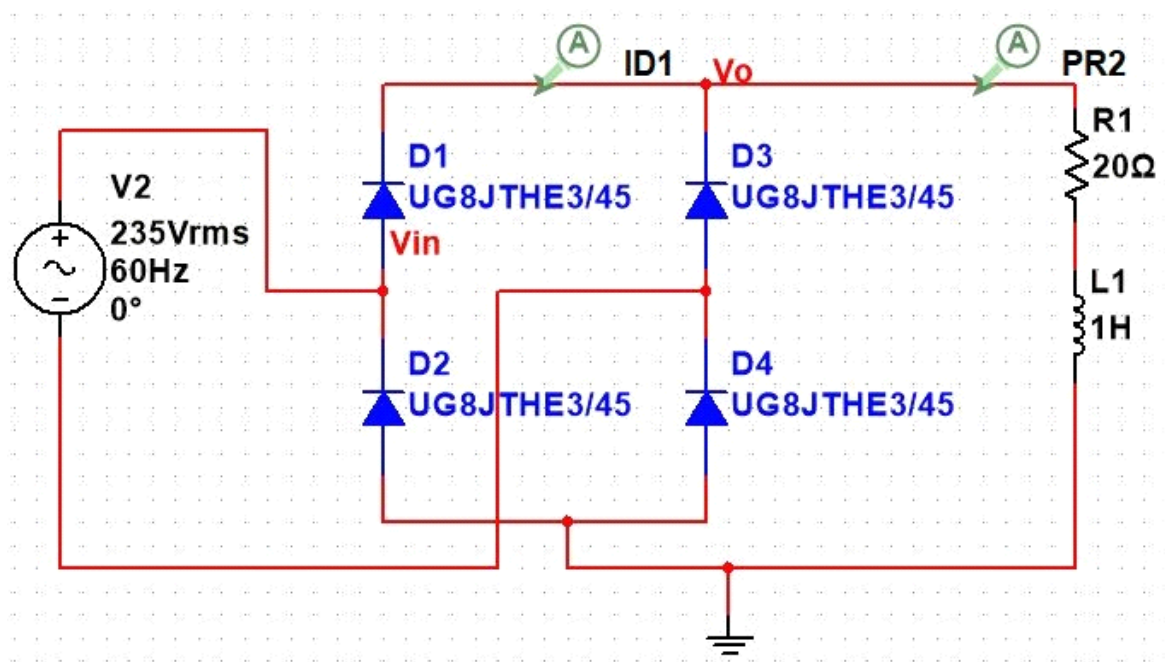
- Vo

Vo

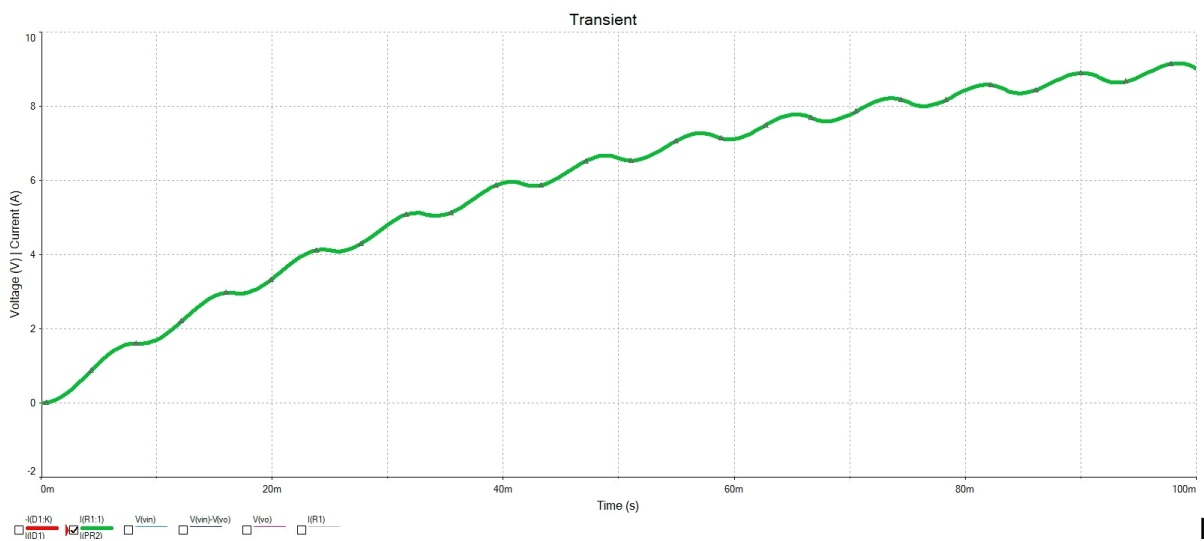
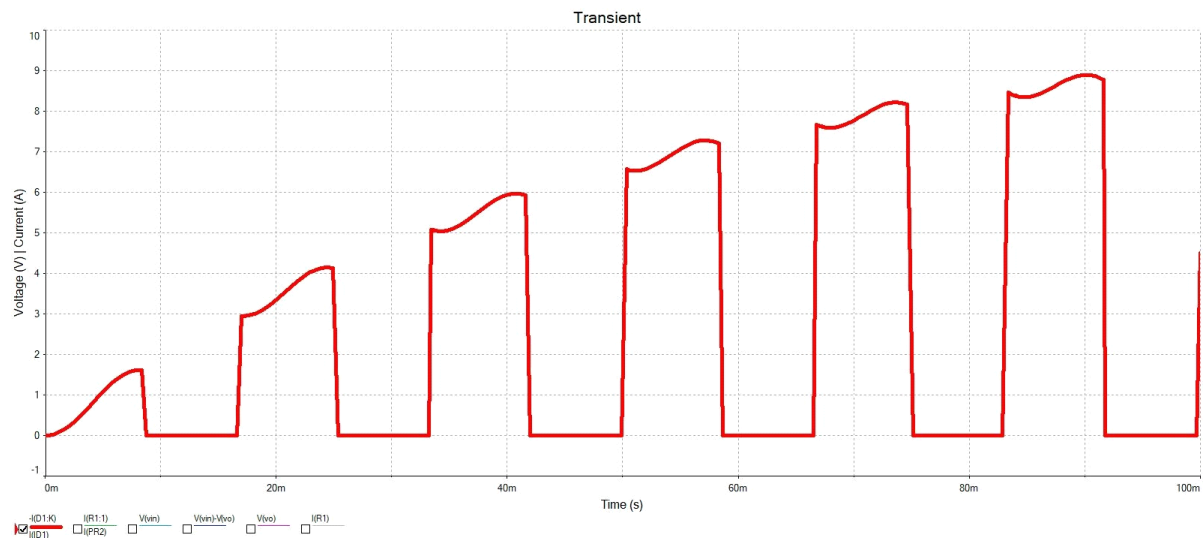


Ir1

With RL load

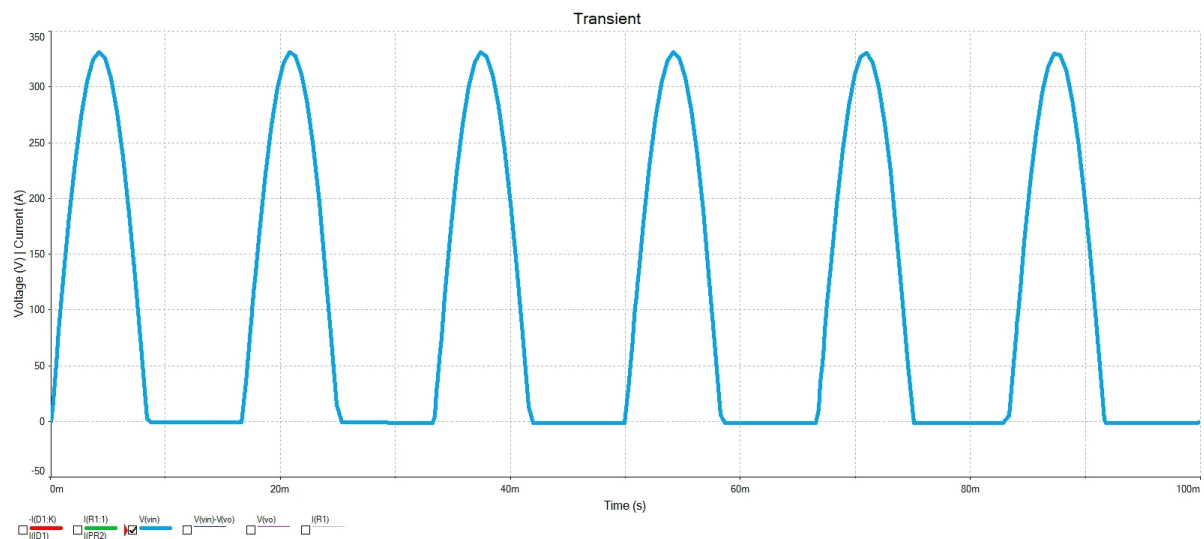


All

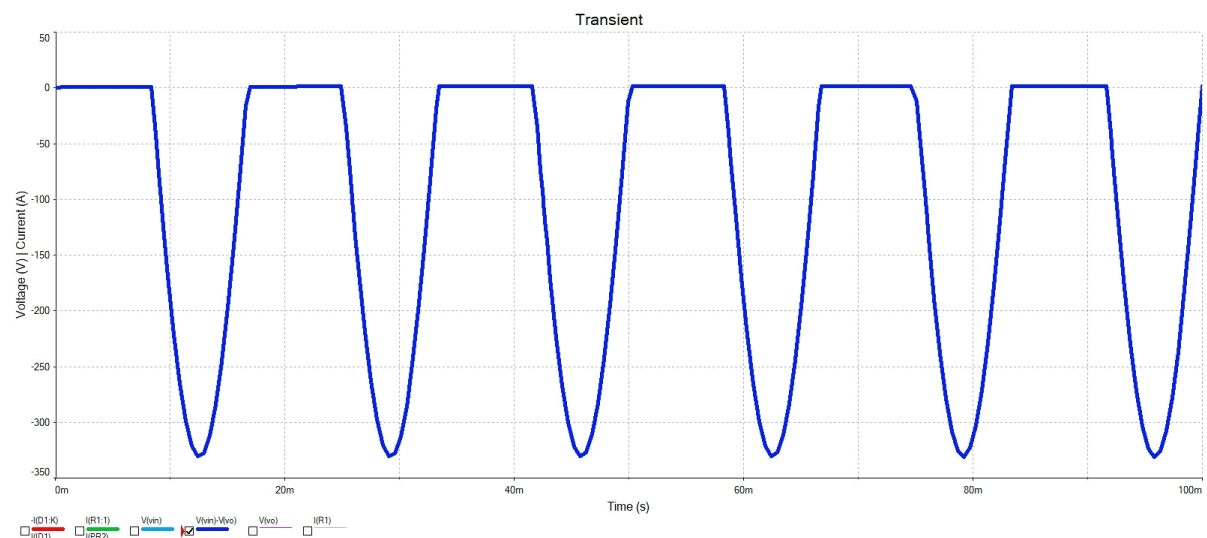


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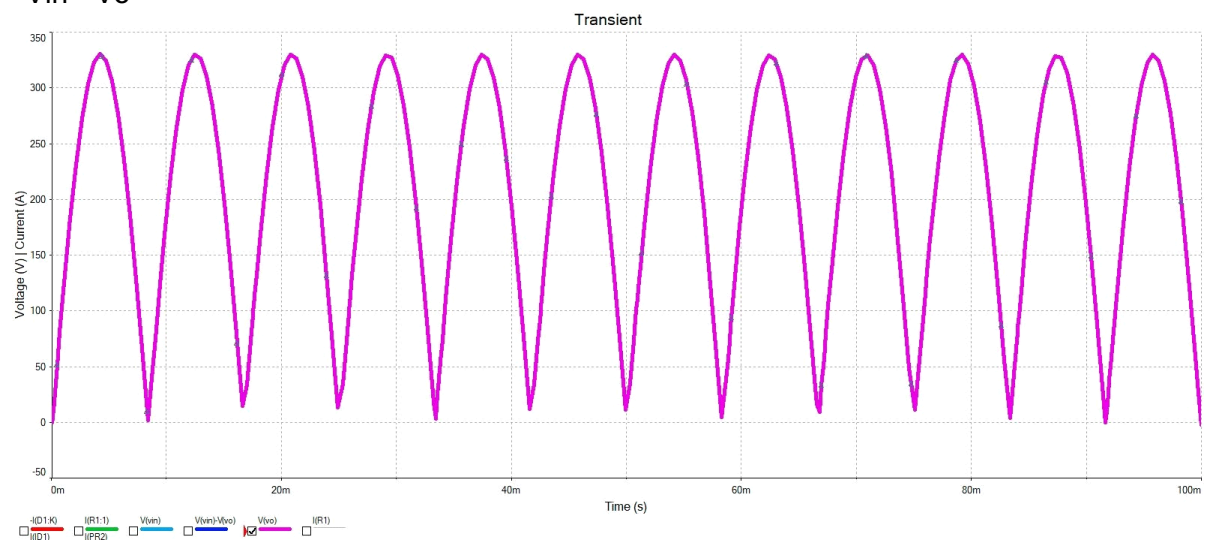
Ir1



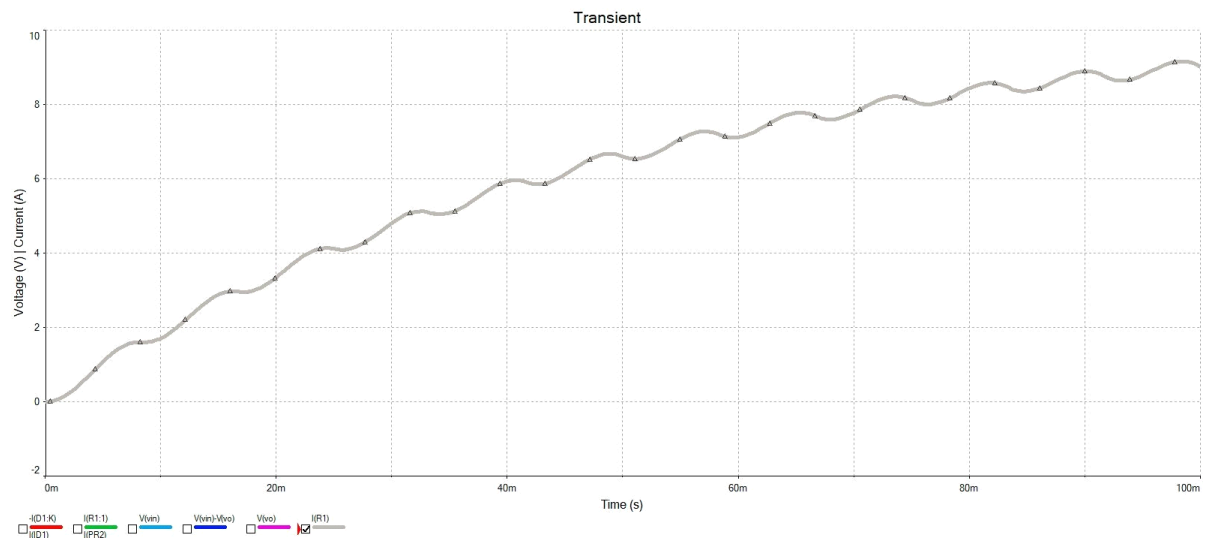
Vin



Vin - Vo



Vo



Ir1