Let’s assume D=0.4

To find Lm first find the average current flow in Lm

Now let’s assume, current ripple in the magnetization current is equal to 40%.

fs is taken as 10kHz,

Then, the MATLAB Simulink simulations were done according to values which were found above.

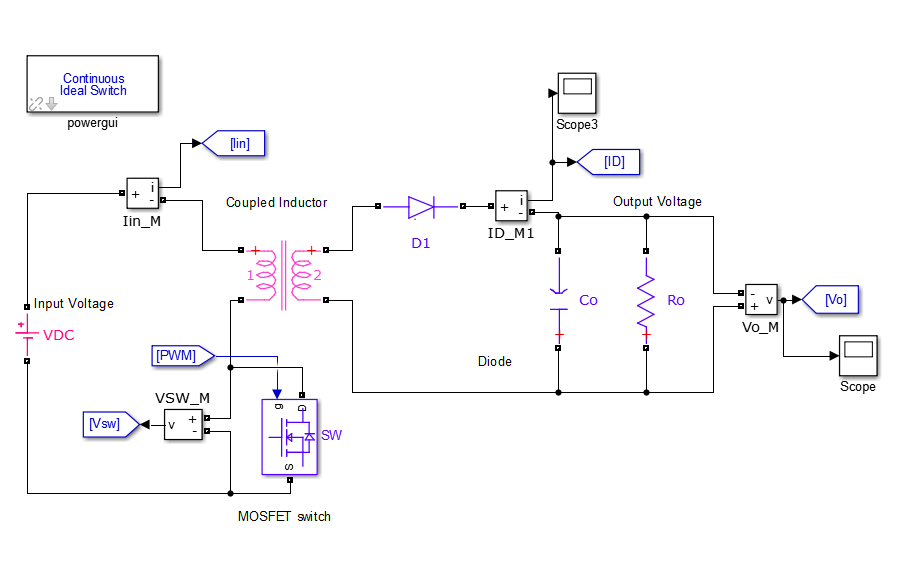


Figure 1: Circuit Schematic of the Flyback Converter

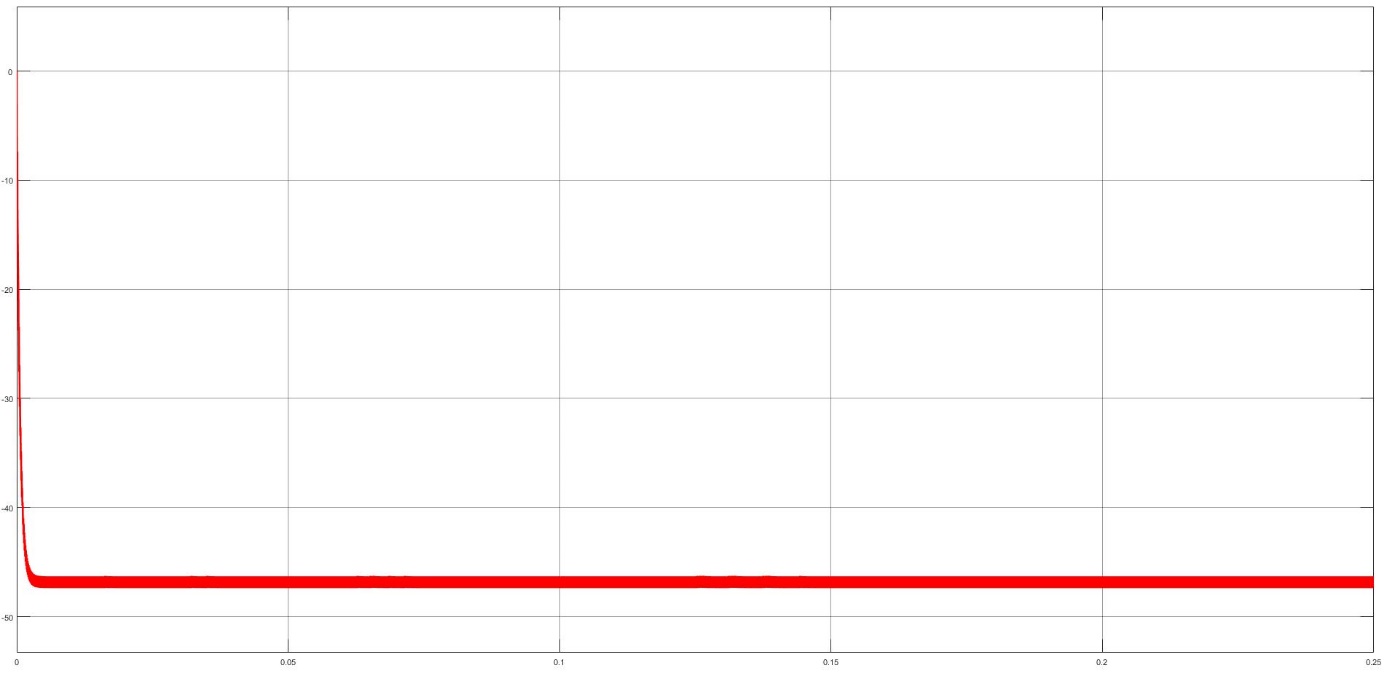


Figure 2: Output Characteristic of the Flyback Converter

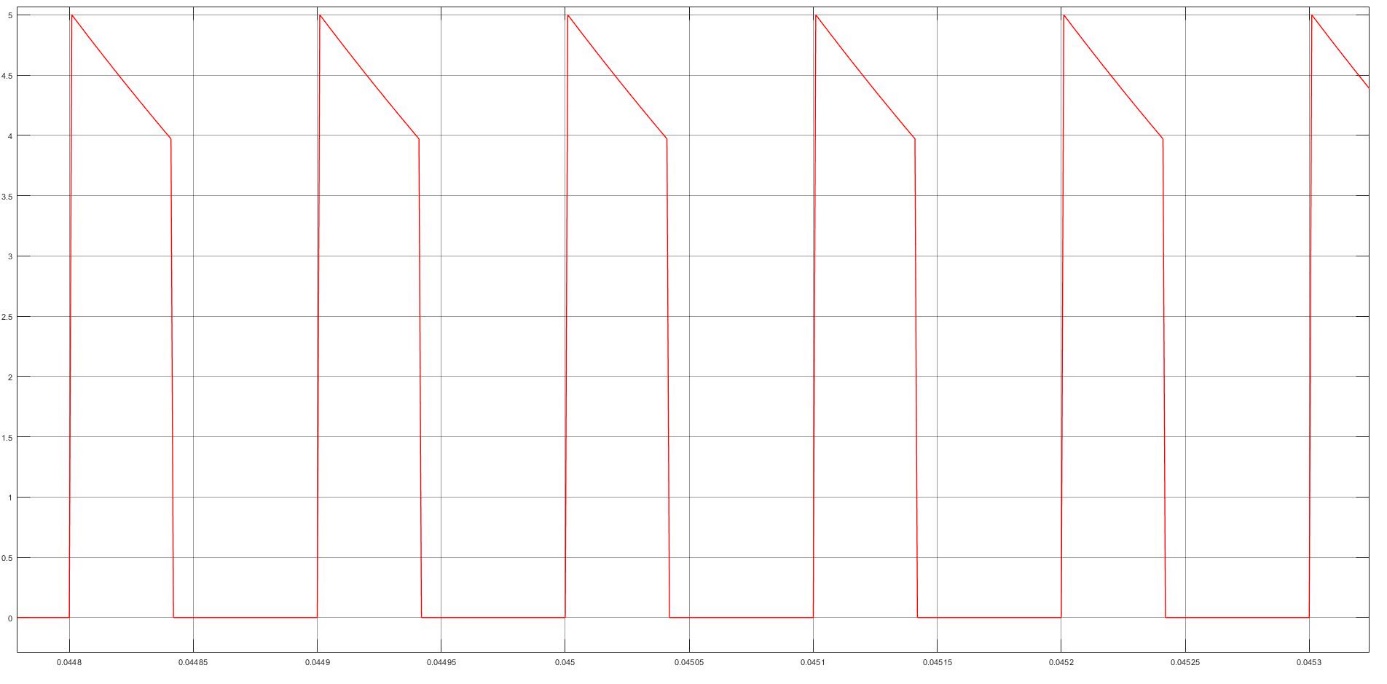


Figure 3: Current Flow Characteristic on the Diode

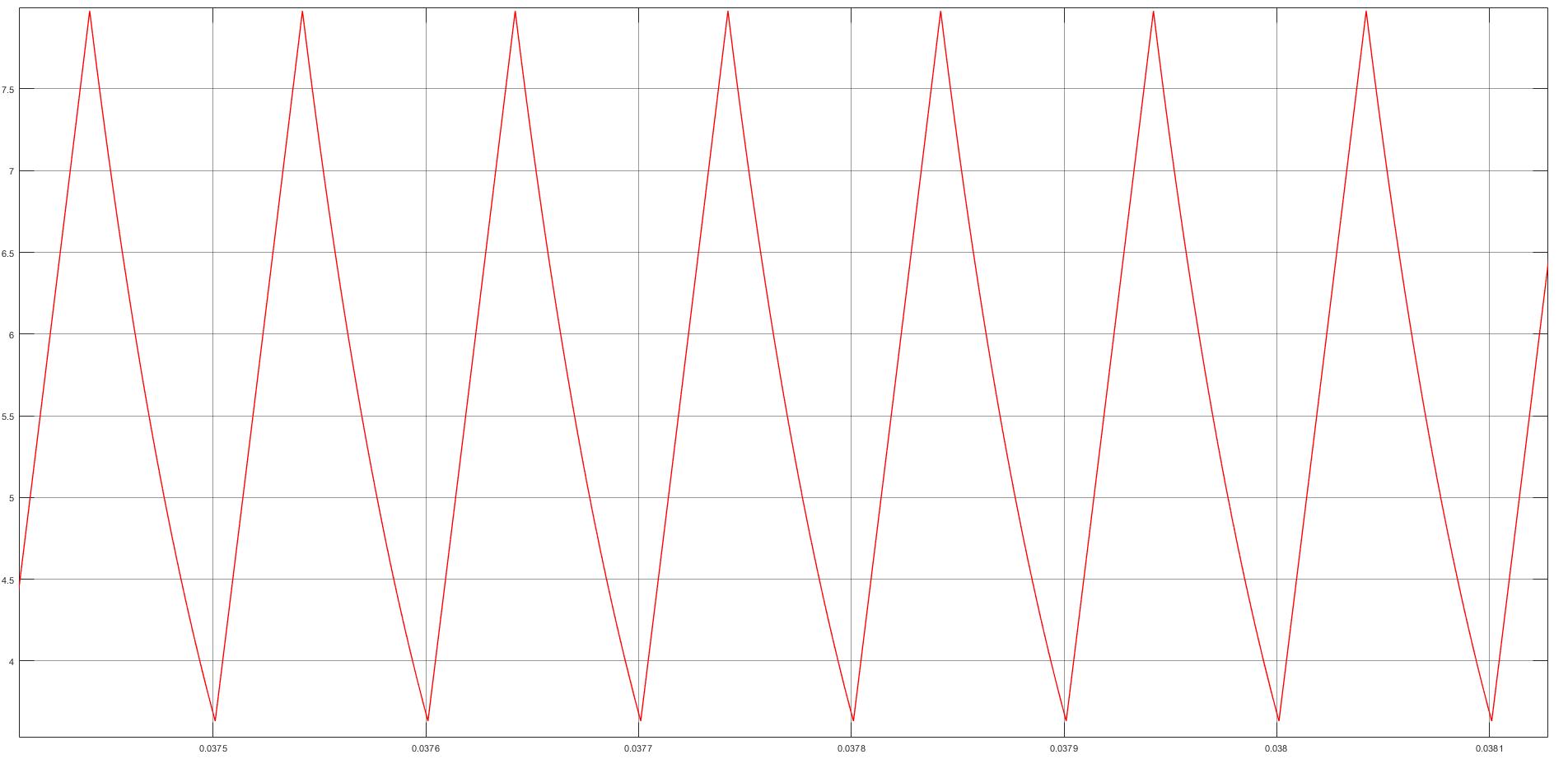


Figure 4: Magnetization Current Waveform of the Flyback Converter