

Bridge Rectifier

Student Group

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Bridge Rectifier 2

observed!

Measure the following values with the help of the oscilloscope in the circuit and enter the results into [table 1](#) (100 μF):



Start drawing by
clicking here

Tab. 1: Bridge-Rectifier measured values

Consider a measure by which the ripple voltage can be reduced. Draw the circuit with your found solution into [figure 3](#) and measure the voltage curves u_{Sec} and u_{R} . Enter these into the screen image [figure 2](#) with a third color.



Start drawing by
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Fig. 3

Carry out the corresponding measurements - as above - again on the bridge rectifier. These were the secondary-side voltage of the transformer \hat{u}_{Sec} , the frequency of the secondary transformer voltage f_{Sec} , the peak-to-peak value of the ripple voltage $u_{\text{PP-ripple}}$, the ripple frequency f_{Ripple} , the average value of the rectified voltage $|\bar{u}_{\text{R}}|$ and the peak value of the rectified voltage $u_{\text{R,~max}}$. Enter the results in the second free line of [table 1](#).

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