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EXPERIMENT 3 Half-Wave and Full-Wave Rectification

Objective

To calculate, compare, draw, and measure the DC output voltages of half-wave and full-wave rectifier circuits.

Tools and Equipments Required

DMM (Digital Multi Meter)	
DC Power Supply	
Function Generator	
2.2 k Ω	x 3
Silicon Diode	x 4

Theory and Descriptions

The primary function of half-wave and full-wave rectification systems is to establish a DC level from a sinusoidal input signal that has zero average (DC) level.

The half-wave voltage signal of Fig.2.1, normally established by a network with a single diode, has an average or equivalent DC voltage level equal to 31.8% of the peak voltage V_m .

That is $V_{dc} = 0.318 \cdot V_{peak}$ volts (half-wave) eq.2.1

The full-wave rectifier signal of Fig.2.1 has twice the average or DC level of the half-wave signal, or 63.6% of the peak value V_m .

That is $V_{dc} = 0.636 \cdot V_{peak}$ volts (full-wave) eq.2.2

For large sinusoidal inputs ($V_m \gg V_T$) the forward-biased transition voltage V_T of a diode can be ignored. However, for situations when the peak value of the sinusoidal signal is not that much greater than V_T , V_T can have a noticeable effect on V_{DC} .



Figure 2.1 half- and full-wave rectified signal

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Liying Dong



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