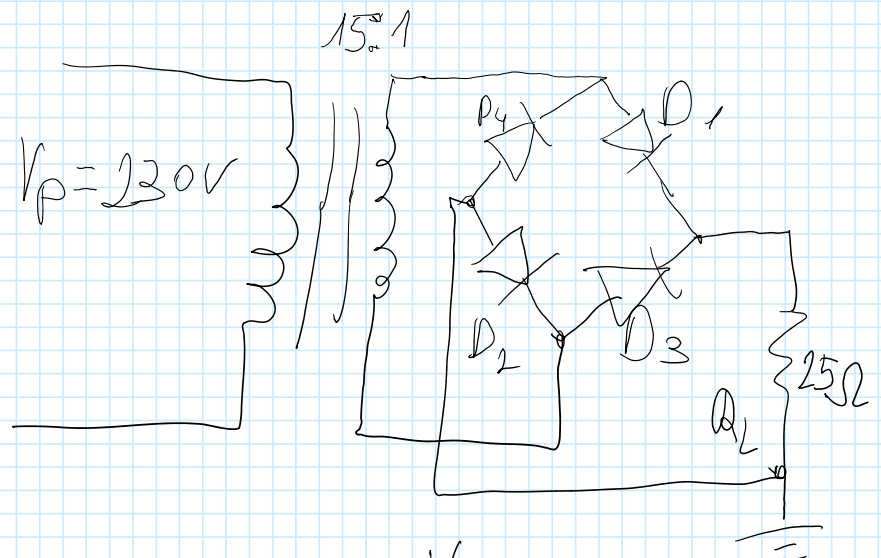


גל סינוס	גל חצי פועם	גל פועם	ערך ממוצע
0	$\frac{U(\max)}{\pi}$	$\frac{2 \cdot U(\max)}{\pi}$	
$\frac{U(\max)}{\sqrt{2}}$	$\frac{U(\max)}{2}$	$\frac{U(\max)}{\sqrt{2}}$	ערך יעיל



$$k = \frac{V_p}{V_s} = 15 \quad (k)$$

$$U_{RL(\text{eff})} = V_s = \frac{V_p}{15} = \frac{230}{15} = 15.3V$$

$$U_{RL(\text{av})} = \frac{2 \cdot 15.3 \cdot \sqrt{2}}{\pi}$$

$$\leftarrow V_{RL(\text{av})} = \frac{2 \cdot U_{RL(\text{max})}}{\pi} \leftarrow$$

$$U_{RL(\text{eff})} = \frac{U_{RL(\text{max})}}{\sqrt{2}}$$

$$U_{RL(\text{max})} = U_{RL(\text{eff})} \cdot \sqrt{2} = 15.3 \cdot \sqrt{2}$$

$$U_{RL(\text{eff})} = 15.3V \quad (2)$$

$$I_{RL(\text{av})} = \frac{U_{RL(\text{av})} - 13.74}{25} \quad (2)$$

$$I_{RL(\text{av})} = 0.549A$$

$$I_{RL(\text{eff})} = \frac{U_{RL(\text{eff})}}{R} = \frac{15.3}{25} = 0.612A \quad (3)$$

$$P_{RL} = \frac{U_{RL(\text{eff})}^2}{R} = \frac{15.3^2}{25} = 9.36W \quad (7)$$