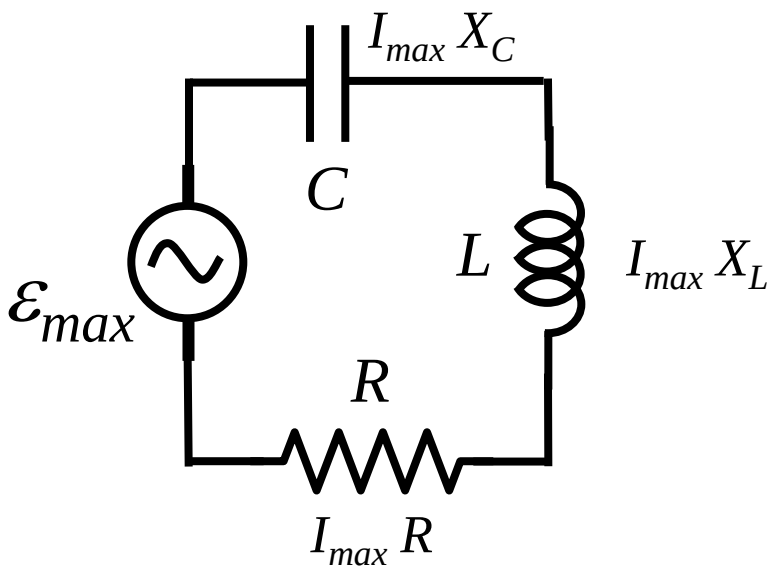
Summary

$$V_{Cmax} = I_{max} X_C$$

$$V_{Lmax} = I_{max} X_L$$

$$V_{Rmax} = I_{max} R$$

$$\mathcal{E}_{max} = I_{max} Z$$



$$I_{max} = \mathcal{E}_{max} / Z$$

$$Z = \sqrt{R^2 + (X_L - X_C)^2}$$

$$\tan(\phi) = \frac{X_L - X_C}{R}$$