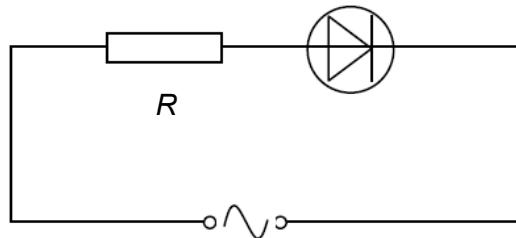


- 25** A sinusoidal current of peak value  $I_0$  is passed through the circuit shown.



What is the mean rate of heat dissipated in terms of  $R$ ?

**A**  $1.41 I_0^2 R$

**B**  $I_0^2 R$

**C**  $0.5 I_0^2 R$

**D**  $0.25 I_0^2 R$

