

- 27** A sinusoidal current of peak value I_0 is passed through a resistor R with a diode connected in series with it.

What is the average rate of heat dissipated in R ?

- A** $0.25 I_0^2 R$ **B** $0.50 I_0^2 R$ **C** $0.71 I_0^2 R$ **D** $I_0^2 R$