

28 A sinusoidal current of peak value I_0 is passed through a resistor R with a diode connected in series with it. The average rate of heat dissipated in R is

A $0.25 I_0^2 R$

B $0.50 I_0^2 R$

C $0.71 I_0^2 R$

D $1.0 I_0^2 R$

29 What is the de Broglie wavelength of a particle of mass m and kinetic energy E , where \hbar is