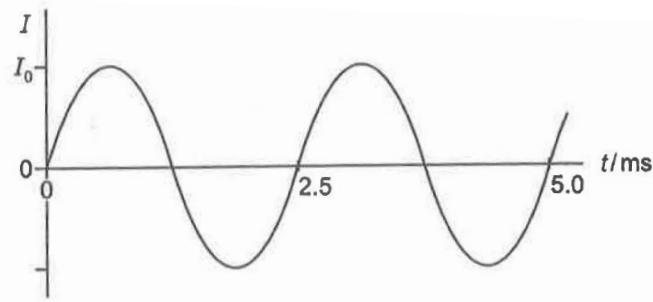


**27** The graph shows the variation with time  $t$  of an alternating current  $I$ .

The peak current is  $I_0$ .



Which expression gives the alternating current  $I$ ?

**A**  $I = I_0 \sin(5\pi t)$

**B**  $I = I_0 \sin\left(\frac{2\pi t}{2.5}\right)$

**C**  $I = I_0 \sin\left(\frac{\pi t}{0.0025}\right)$

**D**  $I = I_0 \sin(800\pi t)$