

- 26** A sinusoidal alternating supply of peak voltage 100 V is connected to a diode and a 100  $\Omega$  resistor in series.

The diode is ideal with a zero forward resistance and an infinite reverse resistance.

What is the value of the mean current in the resistor?

- A** less than 0.5 A
- B** 0.5 A
- C** 0.7 A
- D** 1 A