

**19** A  $1.0\text{ k}\Omega$  resistor has a maximum power rating of  $0.25\text{ W}$ .

What is the maximum rate of flow of electrons in this resistor?

**A**  $1.6 \times 10^{15}\text{ s}^{-1}$

**B**  $9.9 \times 10^{16}\text{ s}^{-1}$

**C**  $1.6 \times 10^{18}\text{ s}^{-1}$

**D**  $3.1 \times 10^{18}\text{ s}^{-1}$

