

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

What is the maximum rate of flow of electrons that can pass through this resistor?

- A** $1.0 \times 10^{13}\text{ s}^{-1}$
- B** $1.0 \times 10^{15}\text{ s}^{-1}$
- C** $1.0 \times 10^{17}\text{ s}^{-1}$
- D** $1.0 \times 10^{19}\text{ s}^{-1}$