

**Electrolysis**

2004

- 5 During the electrolysis of hydrochloric acid, positively charged hydrogen ions move towards the cathode at a rate of 10^{18} ions per second. Negatively charged chloride ions move towards the anode at the same rate. Both hydrogen and chloride ions carry charges of magnitude 1.6×10^{-19} C.

What is the resulting current flow between the electrodes?