

Reverse region

Forward region

A graph illustrating the relationship between current (I) and voltage (V) for a diode. The vertical axis is labeled I and the horizontal axis is labeled V . The graph is divided into two regions by a vertical dotted line at $V = 0$ and a horizontal dotted line at $I = 0$. The region to the left of $V = 0$ is labeled "Reverse region", and the region to the right of $V = 0$ is labeled "Forward region". The current I is zero for all negative voltages V . For positive voltages V , the current I remains at zero until the forward voltage V_{pn} is reached, where it increases sharply, indicated by a thick red line.

0 V_{pn}

V