

# ECE360 Electronics

Jonah Chen

## 1 Diode

A diode is like an electronic valve. An ideal diode only allows current to flow in one direction with  $i_{out} = \max(0, i_{in})$ . A diode is similar to a valve, which only allows water flow one way.

A simple example is a half-wave rectifier where the load, diode, and AC source is connected in series.

