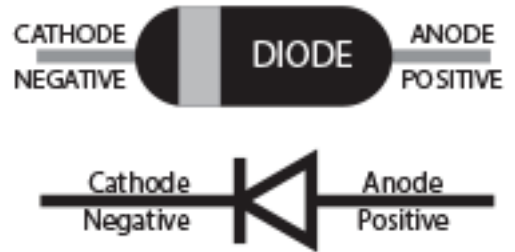


Diode Application Guide

What is a "Diode" and why would I need to use one?

A diode is an electrical "backflow valve", it allows electrons to travel in only one direction. Diodes allow positive voltage to travel from the ANODE to the CATHODE, but it will not allow positive voltage to travel from the CATHODE to the ANODE.

NOTE: The band on the diode marks the CATHODE, the negative (-) input side.



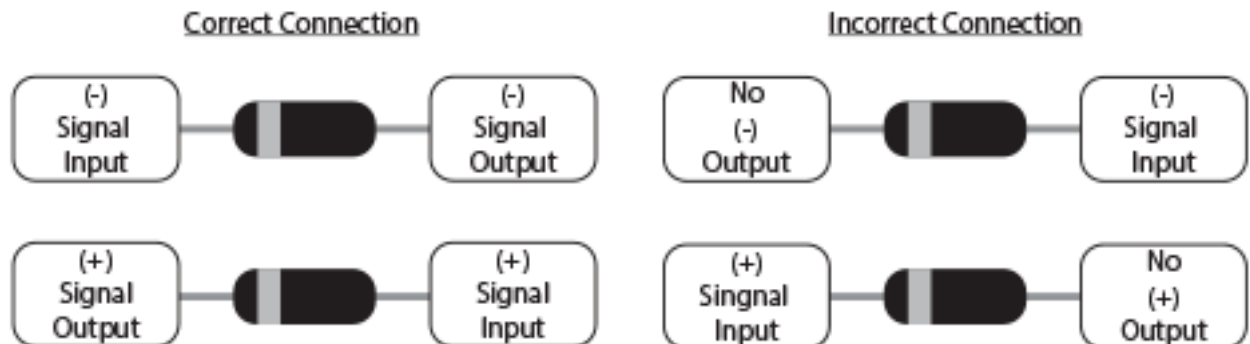
When working with a negative signal the diode works the opposite way. It will allow a negative signal to travel from the CATHODE to the ANODE but it will not allow the negative signal to flow from the ANODE to the CATHODE.

Diodes are used in a variety of common applications. Here are a few examples below:

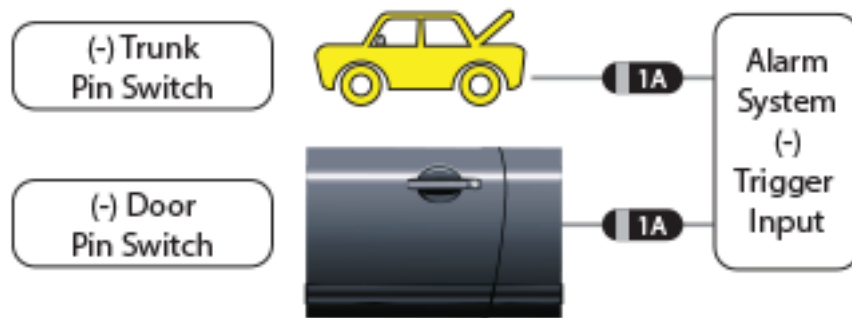
- Connecting multiple switches to the same input.
- Flashing multiple parking lights from a single output.
- Triggering 2 different circuits from a single output.
- Preventing feedback from the 2 coils of a relay.

Here is a quick reference guide.

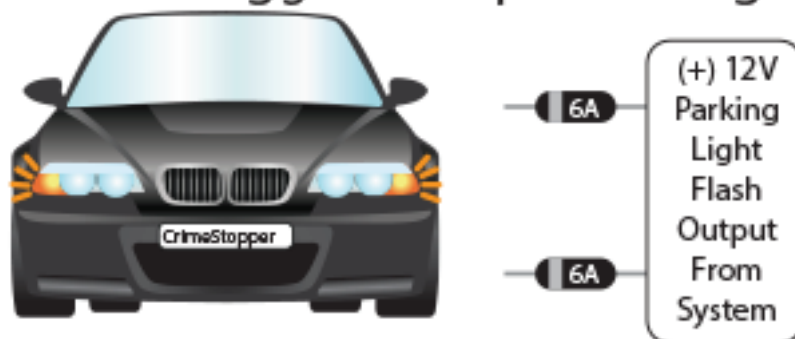
The 1N4004 is the most common diode available and they are 1 Amp capable. Make sure that you use the correct amperage rating for your specific installation.



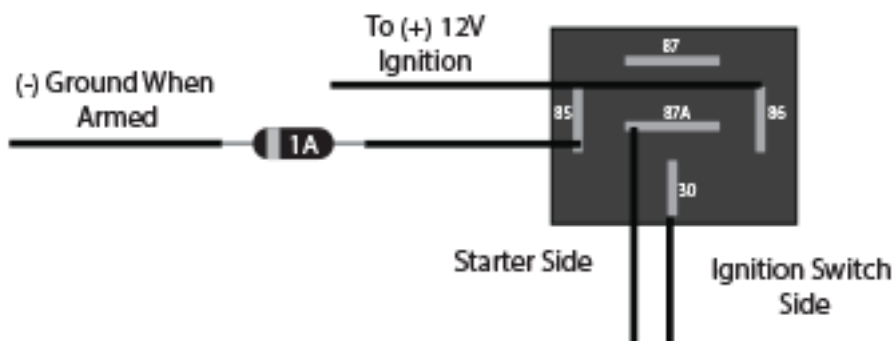
Using a Diode to Trigger Multiple Parking Lights



Using a Diode to Trigger Multiple Parking Lights



Using a diode to isolate a starter kill relay.



Disarm Factory Security with unlocking.

