## **Current-limiting resistors & diodes**



## WHAT TO DO

One current-limiting resistor is required in **each** path containing an LED! This means a 7-segment display requires seven current-limiting resistors.

## WHY WE DO IT

This ensures uniform brightness of each diode. Diodes are all slightly different and can act unpredictable if wired in parallel. Even if identical, display brightness will vary depending on how many segments are illuminated at once if wired in parallel.

## 7-SEGMENT DISPLAYS





