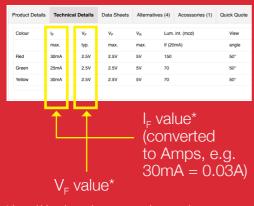


HOW TO CALCULATE RESISTOR USAGE

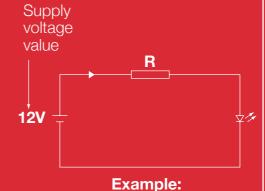
Use the following formula to calculate resistance.

$$\frac{\text{Supply voltage} - V_F}{I_F} = \mathbf{R}$$

By relating the sample product from the Rapid website - (Standard 5mm LED – Kingbright range) to the diagram beneath it, you can work out resistor values.



 ^{*} I_F and V_F values given are maximum values and should not be exceeded



If $V_F = 2V$ and $I_F = 30mA$ (0.03A)

then $R = 333\Omega$

N.B.

Blue and white LEDs have a higher VF (typically 4V)

