



Max LED current = 20 mA  
Max Voltage = 14V  
LED Forward voltage = ~3V

$V = IR$   
 $R = V/I$   
 $R = (V_{batt} - V_{led})/I_{led}$   
 $R = (14-3)/(20e-3)$   
 $R = (V_{batt} - V_{led})/I_{led}$   
 $R = 550 \text{ ohms}$   
Let's use 560ohms. More common value.  
Solving again, we get:  
 $I = V/R = (14-3)/560 = 19.6\text{mA}$

TITLE: Bluejacket Robotics 2024 PCB Button		REV: 1.0
	Company: Bluejacket Robotics	Sheet: 1/1
	Date: 2023-01-22 Drawn By: J White	