

- Forward current and maximum current in LEDs. How to calculate their resistance?

Based on documents, it has been substantiated that the vast majority of LEDs receive a forward current of 20mA. However, in some cases like infrared LEDs, the received forward current is approximately about 50mA. In the following table, the complete information about the currents of LEDs has been mentioned.

Items	Absolute Maximum Rating
Forward Current	20mA
Peak Forward Current	30mA
Suggestion Using Current	16mA – 18mA

To calculate LED resistance, we can use this formula:

$$R = \frac{V_S - V_{LED}}{I_{LED}}$$

Kaveh Shahedi

Microprocessors Laboratory – Fall 2020

Kharazmi University, Iran