# Luxeon Rebel High Power LED - Warm White

COM-09637 ROHS

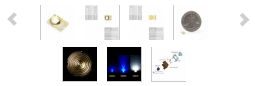


DESCRIPTION DOCUMENTS

This is a super-high intensity Luxeon Rebel LED, warm white in color. These LEDs provide optimized light quality and efficiency to address a number of project needs, including LED illumination.

These LEDs can be blindingly bright and have a max forward current of 1A! This LED has a typical forward voltage of 3VDC (2.55V to 3.99V range). They're also tiny; measuring in at about 3 x 4.5 mm.

These LEDs can get toasty; you may want to consider adding some form of heatsinking to them. In addition to the heatsink, we also carry a lense and lense carrier specific to the rebel LEDs. Those components are all part of a solderless LED holder, they all snap together and really simplify the connection to these LEDs.



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## Luxeon Rebel High Power LED - Warm White Product Help and Resources

SKILLS NEEDED

### Core Skill: Soldering

This skill defines how difficult the soldering is on a particular product. It might be a couple simple solder joints, or require special reflow tools.

**Skill Level: Competent** - You will encounter surface mount components and basic SMD soldering techniques are required.
See all skill levels

### Core Skill: Electrical Prototyping

If it requires power, you need to know how much, what all the pins do, and how to hook it up. You may need to reference datasheets, schematics, and know the ins and outs of electronics.

**Skill Level: Rookie** - You may be required to know a bit more about the component, such as orientation, or how to hook it up, in addition to power requirements. You will need to understand polarized components.
See all skill levels

COMMENTS 8 REVIEWS 0

## Customer Comments

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Member #431473 / about 5 years ago / ★ 2
The heatsink for the product is no longer made, and nothing has been released to replace it. These heat up too much to stay on for longer than about 20-30 seconds. I suggest using a different LED unless they are meant to flash on and off.

Member #550474 / about 4 years ago / ★ 1
Would I be able to mount a bunch of these using thermal tape on an old transistor heatsink I have? The heatsink is about 1 inch by about 4 inches, was originally designed for 3 high power transistors. I would like to be able to use that then mount it with power supply in an enclosure as a small up lighting wall wash fixture. If possible I would like to drive it with 5V if I can find an appropriate constant current driver for it, if not I can go with 12v if I have to.

Member #429228 / about 5 years ago / ★ 1
Can this be connected to an arduino? And if so, how?

SomeGuy123 / about 7 years ago * / ★ 1
The pictures for this LED are the wrong ones. The front face of the warm white LED itself has a yellowish tint to it.

PeterG / about 7 years ago / ★ 1
**WARNING**: Careful reading of the datasheet reveals:

> **Maximum Ratings limits are specified when applied singularly and for device operation not to exceed 60 seconds.**
> Typical continuous operating current is apparently more like 600 - 700 mA with appropriate heat sinking.
> Peter.

> SomeGuy123 / about 7 years ago * / ★ 1
> If you give it too much current, the top bulb will melt off and the LED will start to become much dimmer. I tried it out of curiosity.

ddd999 / about 8 years ago / ★ 1
Which Luxeon part # is this?

> scurrier / about 7 years ago / ★ 1
> They show it next to the datasheet. Part# LXM3-PW61, it is the 3500K color temp version.

START SOMETHING.
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In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

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