

Product Brief

# LUXEON Rebel

## Phosphor-Converted Amber

LUXEON® Rebel Phosphor-Converted Amber delivers high flux performance coupled with superb amber color stability in an ultra compact LED. It can be used for a wide range of applications under the most diverse operating conditions. It delivers 2-5 times higher lumen output per package and superior color stability when compared to other high power amber LEDs currently available.



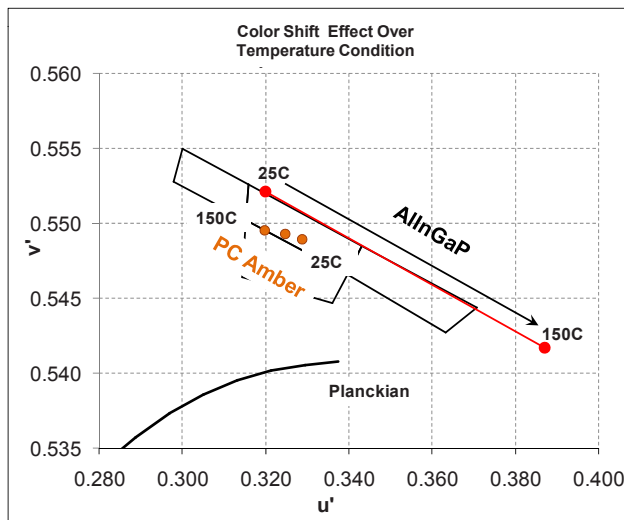
### LUXEON Rebel PC Amber

**Benefits:**

- Leading flux density allows you to reduce the number of LEDs used reducing your manufacturing cost.
- Stable amber color under operating temperature and current change simplifies design and engineering.
- Operate more efficiently for longer periods of time while maintaining color specifications.
- Minimize thermal management costs and complexity.
- Design smaller, sleeker solutions with ultra compact LED.

**Features:**

- Most lumens per package in amber color: Typical 70 lumens at 350 mA.
- Industry's lowest color shift: typically  $\pm 0.005$  x,y over 60°C of temperature change.
- Maximum junction temperature of 120°C.
- Maximum drive current 700 mA.
- Best moisture sensitivity: JEDEC Level I unlimited floor life—no need for reconditioning.
- RoHS compliant—lead-free reflow solder JEDEC 020c compatible.
- Autoclave compliant—JESD22 A-102.
- Electrically isolated thermal pad.



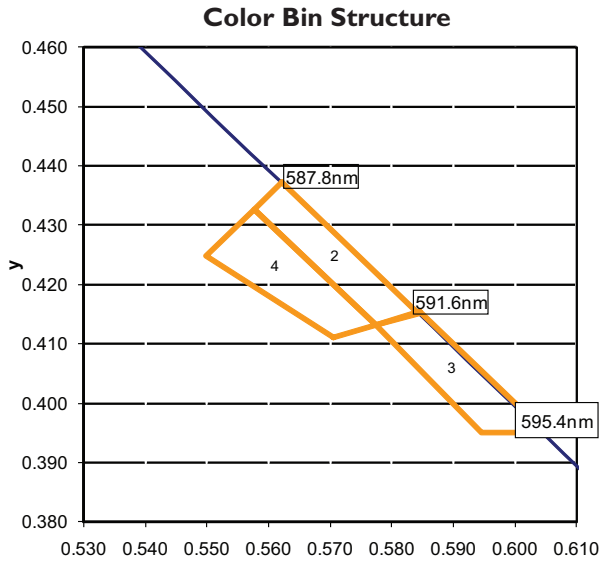
**Key Applications:**

- Traffic
- Emergency Vehicle Lighting
- Outdoor
- General Lighting
- Architectural
- Obstruction & Warning

## LUXEON Rebel PC Amber Flux Characteristics

Color	Part Number	Performance at Test Current			Typical Performance at Indicated Current	
		Minimum Luminous Flux (lm)	Typical Luminous Flux (lm)	Test Current (mA)	Typical Luminous Flux (lm)	Drive Current (mA)
Amber	LXM2-PL01-0000	50	70	350	130	700

Refer to the datasheet DS62 for more information.



### Absolute Maximum Ratings

Parameter	Value
DC Forward Current (mA)	700
Peak Pulsed Forward Current (mA)	700
Average Forward Current (mA)	700
ESD Sensitivity	< 8000V Human Body Model (HBM) Class 3A JESD22-A114-B < 400V Machine Model (MM) Class 3A JESD22-A115-B
LED Junction Temperature	120°C
Operating Case Temperature at 350 mA	-40°C - 110°C
Soldering Temperature	JEDEC 020c 260°C
Allowable Reflow Cycles	3
Autoclave Conditions	121°C at 2 ATM 100% Relative Humidity for 96 Hours Maximum
Reverse Voltage (Vr)	

Refer to the datasheet DS62 for more information.



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