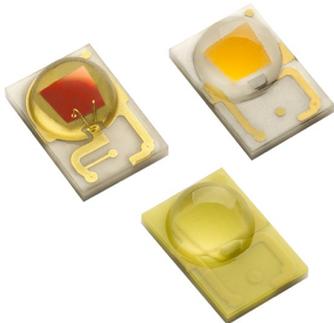




LUXEON Rebel, White & PC Amber

Styling solution for front turn and side marker applications



LUXEON Rebel LEDs for automotive has the longest history in high power exterior lighting applications that are specifically designed and tested to meet and exceed expectations for reliability, performance and lifetime in all vehicle applications. LUXEON Rebel meets both SAE and ECE color specifications and provides finer granularity than existing systems.

FEATURES AND BENEFITS

Drive at maximum current for up to 230 lumens for reduced LED count

Low thermal resistance for lower heat sink costs

Electrically isolated thermal pad to reduce thermal management engineering costs

AEC-Q101C qualified and PPAP documentation available

PRIMARY APPLICATIONS

Back-up

Daytime Running Lights

- Position

Side Marker

Turn

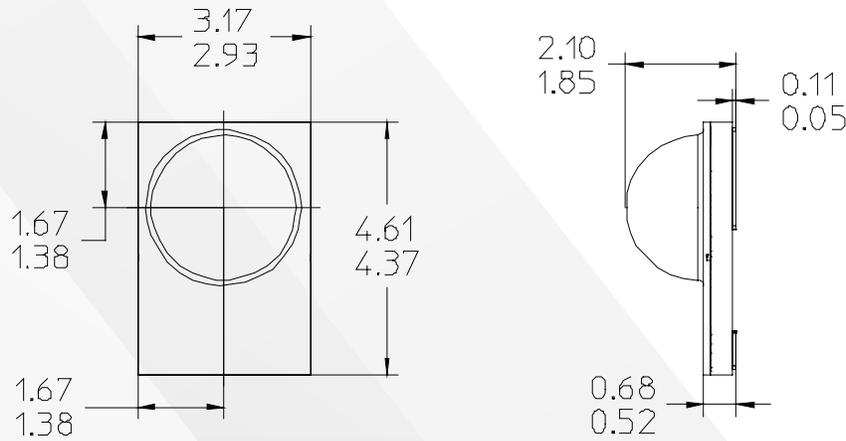
LUXEON Rebel, White & PC Amber Absolute Ratings.

PARAMETER	PERFORMANCE
Minimum DC Forward Current	50mA
Maximum DC Forward Current	700mA
Maximum Junction Temperature ^[1]	150°C
Operating Case Temperature at Test Current ^[1]	-40 to 150°C for White -40 to 135°C for PC Amber
Operating Case Temperature at Maximum Current ^[1]	-40 to 130°C for White -40 to 115°C for PC Amber
Storage Temperature	-40 to 135°C
Soldering Temperature	JEDEC 020c 260°C
Allowable Reflow Cycles	3
ESD Sensitivity ^[2]	8kV HBM, 400V MM
Reverse Voltage (Vr)	LUXEON LEDs are not designed to be driven in reverse bias
Autoclave Conditions	121°C at 2 ATM 100% Relative Humidity for 96 Hours Maximum

Notes:

1. Proper current derating must be observed to maintain junction temperature below the maximum, so that the LED is maintained below the maximum rated operating case temperature. LUXEON Rebel, White & PC Amber LEDs driven at or above the maximum rated operating case temperature may have shorter lifetime.
2. Measured using human body model and machine model (per AEC-Q101C).

Mechanical Dimensions.



Notes:

1. Drawings are not scale.
2. All dimensions are in millimeters.