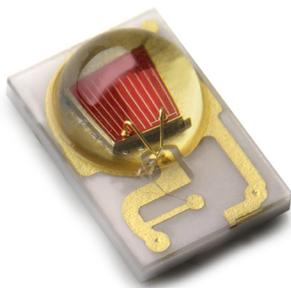




LUXEON Rebel, Red-Orange & Amber

High flux solution for signaling applications



Automotive grade LUXEON Rebel LEDs are designed and tested to meet and exceed expectations for reliability, performance and lifetime in all vehicle applications. LUXEON Rebel Red-Orange and Amber LEDs are advantageous for both efficient light guide coupling and automotive tail applications. LUXEON Rebel meets both SAE and ECE color specifications and provides finer granularity than existing systems.

FEATURES AND BENEFITS

- High flux output provides flexibility in styling and optical design
- Low forward voltage results in higher efficacy and lower solution costs
- Electrically isolated thermal pad to reduce thermal management engineering costs
- AEC-Q101C qualified and PPAP documentation available

PRIMARY APPLICATIONS

- Rear Fog
- Side Marker
- Stop/Tail
- Turn

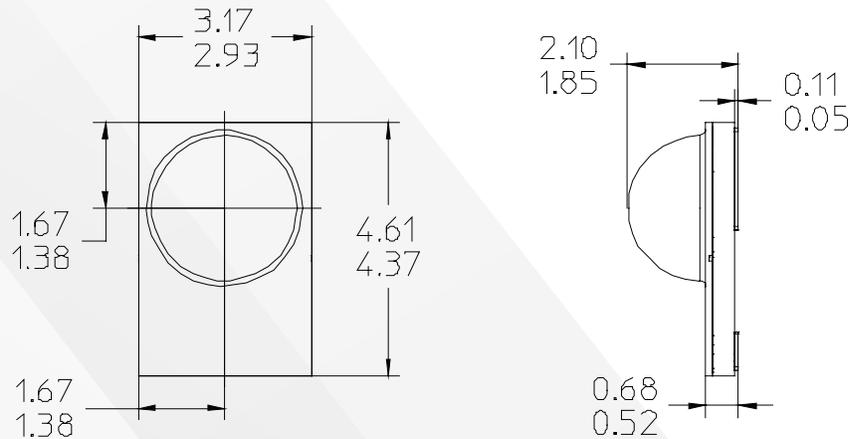
LUXEON Rebel, Red-Orange & Amber Absolute Ratings.

| PARAMETER | PERFORMANCE |
|--|--|
| Minimum DC Forward Current | 50mA |
| Maximum DC Forward Current | 700mA |
| Maximum Junction Temperature ^[1] | 135°C |
| Operating Case Temperature at Test Current ^[1] | -40 to 135°C |
| Operating Case Temperature at Maximum Current ^[1] | -40 to 135°C |
| 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:

- 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 LEDs driven at or above the maximum rated operating case temperature may have shorter lifetime.
- Measured using human body model and machine model (per AEC-Q101C).

Mechanical Dimensions.



Notes:

- Drawings are not scale.
- All dimensions are in millimeters.

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