LUMILEDS

AUTOMOTIVE





LUXEON Rebel

Bright domed solution



Automotive grade LUXEON Rebel LEDs are designed and tested to meet and exceed expectations for reliability, performance and lifetime in rear lighting applications. LUXEON Rebel is a bright domed AlInGaP LED in the market well suited for lightguide tail and small footprint stop-tail and rear fog applications.

LUXEON Rebel is available in the following color wavelengths:

- Red Orange (615nm)
- Super Red (635nm)

FEATURES AND BENEFITS

- Higher drive current capability for increased flux performance
- Low thermal resistance and power consumption results in simplified thermal management and system cost
- High flux output provides flexibility in styling and optical design

PRIMARY APPLICATIONS

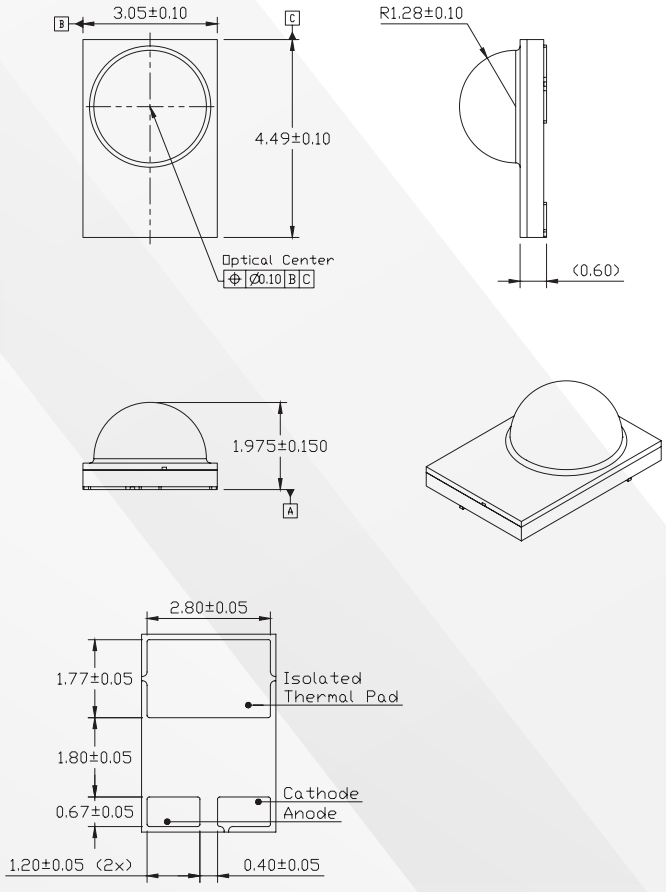
- Rear Fog
- Stop/Tail

LUXEON Rebel for Automotive Absolute Ratings.

PARAMETER	PERFORMANCE
Minimum DC Forward Current	50mA
Maximum DC Forward Current	1.2A
Maximum Junction Temperature [1]	150°C
Operating Case Temperature at Test Current [1]	-40°C to 130°C
Operating Case Temperature at Maximum Current [1]	-40°C to 130°C
LED Storage Temperature	-40°C to 135°C
Soldering Temperature	JEDEC 020c 260°C
Allowable Reflow Cycles	3
Minimum ESD performance [2]	8kV HBM, 400V MM
Reverse Voltage (V_r)	LUXEON Rebel LEDs are not designed to be driven in reverse bias

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 LEDs driven at or above the maximum rated operating case temperature may have shorter lifetime.
2. Measured using human body model (per ANSI/ESDA/JEDEC JS-001-2010) and charged device model (per JESD22-C101F).

Mechanical Dimensions.



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

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