



# LUXEON FX Plus Cool White

Industry-leading CSP solutions for low and high beam lamps



LUXEON FX Plus Cool White LEDs, with their Chip Scale Packaging (CSP) form factor, are designed to support low and high beam applications, daytime running lamps and front fog. The Lumileds automotive binning structure meets both SAE and ECE color specifications and is hot binned at 85°C, consistent with actual automotive operational environments. All LUXEON FX LEDs are IEC-60810 qualified.

## FEATURES AND BENEFITS

- Higher drive current capability for increased flux performance
- Low thermal resistance for better hot lumen performance
- Chip Scale Packaging for low cost and ease of manufacturability
- Hot binned at 85°C MP to match closer to operating conditions
- IEC/PAS62707-1 White LED

## PRIMARY APPLICATIONS

- Daytime Running Lights
- Front Fog
- Headlight
  - Low Beam
  - High Beam
  - Cornering Light

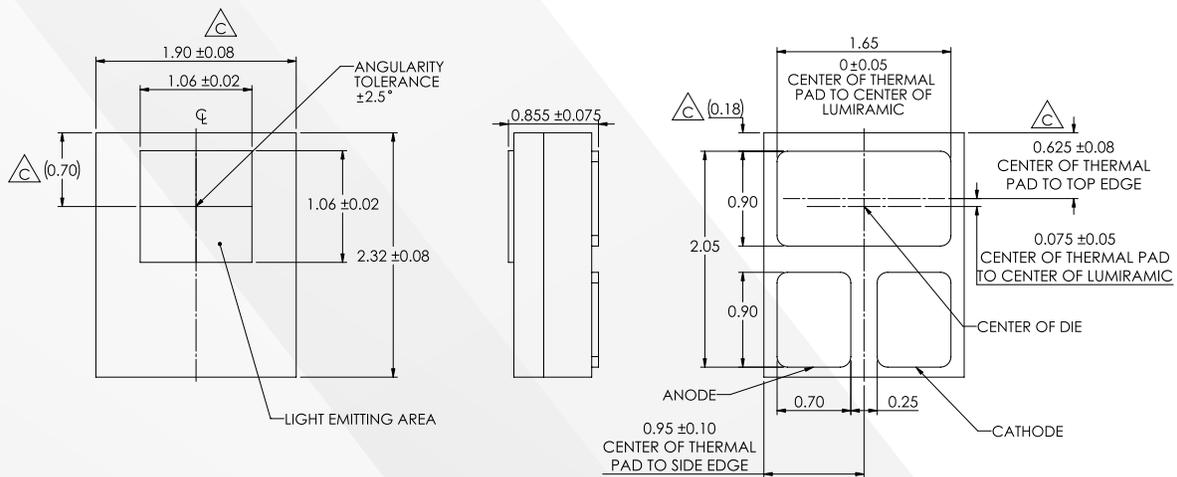
## LUXEON FX Plus Cool White Absolute Ratings.

PARAMETER	PERFORMANCE
Minimum DC Forward Current	50mA
Maximum DC Forward Current	1500mA
Maximum Junction Temperature <sup>[1]</sup>	150°C
Maximum Junction Temperature for <200 Hours <sup>[1]</sup>	180°C
Operating Case Temperature at Test Current <sup>[1]</sup>	-40°C to 130°C
Operating Case Temperature at Maximum Current	-40°C to 130°C
LED Storage Temperature	-40°C to 130°C
Maximum Soldering Temperature	260°C
Allowable Reflow Cycles	3
ESD Sensitivity <sup>[2]</sup>	±8 kV HBM, ±400 V MM, ±2kV CDM
Reverse Voltage ( $V_{reverse}$ )	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:

- Given for reference only, LUXEON FX LEDs driven above maximum LED case temperature and/or maximum  $I_f$  may have shorter lifetime.
- Measured using human body model (per JESD22 A114), machine model (per JESD22 A115) and charged device model (per JESD22 C101).

## Mechanical Dimensions.



### Notes:

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

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