



# LUXEON FX Plus PC Amber

Industry-leading Chip Scale Package solutions for turn applications



LUXEON FX LEDs with their Chip Scale Package (CSP) form factor are designed to meet present and future Automotive requirements. 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. LUXEON FX Plus PC Amber provides industry-leading solutions for your front and rear turn applications. 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 mono pulse (MP) to match closer to operating conditions

## PRIMARY APPLICATIONS

- Side Marker
- Turn
  - Front Turn
  - Rear Turn

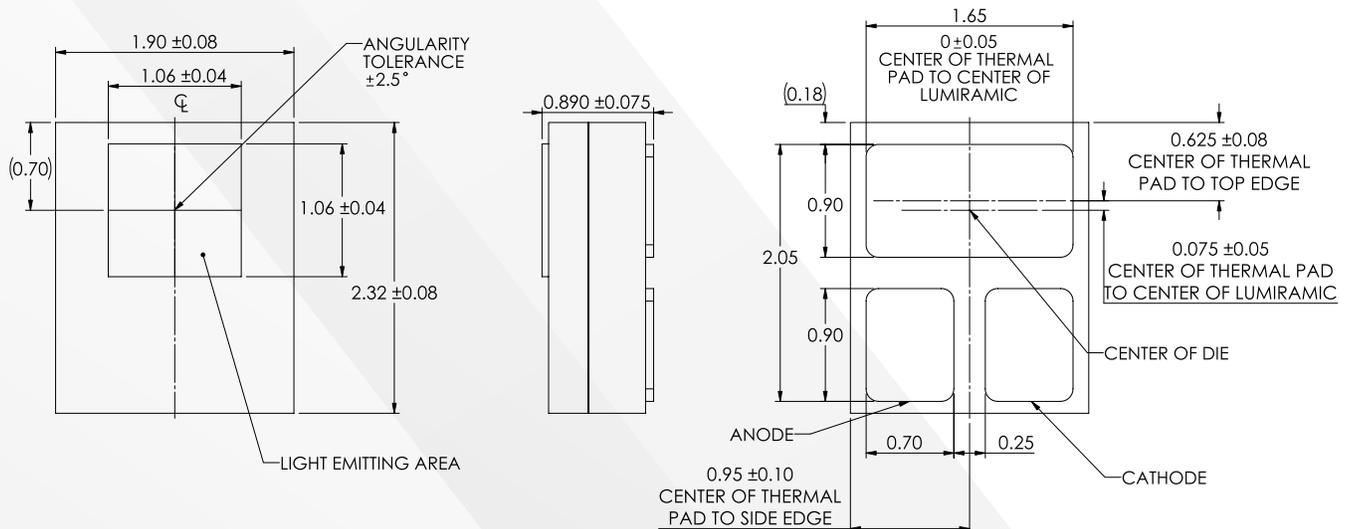
## LUXEON FX Plus PC Amber Absolute Ratings.

PARAMETER	PERFORMANCE
Minimum DC Forward Current	50mA
Maximum DC Forward Current	1000mA
Maximum Junction Temperature <sup>[1]</sup>	150°C
Operating Case Temperature at Test Current	-40°C to 125°C
Operating Case Temperature at Maximum Current	-40°C to 125°C
Maximum Junction Temperature for <200 Hours (1000mA) <sup>[1]</sup>	180°C
LED Storage Temperature	-40°C to 130°C
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 FX 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 If 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.