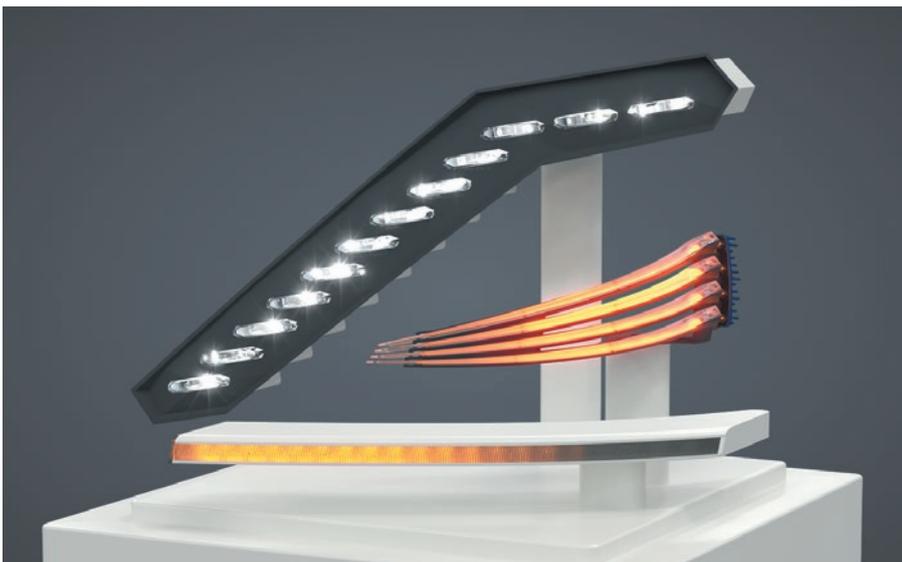




The LUXEON dual-color portfolio

White/amber LEDs create new styling possibilities for combined daytime running light and front turn



Lumileds now offers an extended range of three dual-color LEDs, each tailored to specific application requirements. The latest, small LUXEON Altilon SMD DT 1 W is an ideal solution for customers looking for a lower-flux package with a minimized light-emitting area for excellent optical integration. Deploying a series of these emitters enables animated dynamic turn signals and welcoming scenarios.

FEATURES AND BENEFITS

- Single-package, dual emitters streamline lamp integration and design flexibility
- Variety of products with different flux levels and light-emitting areas creates differentiated styling possibilities, ranging from reflector to light-guide and light-blade optical designs
- LUXEON Altilon SMD DT 1 W and 3 W ceramic package technology offers lowest thermal resistance and provides leading flux performance with smallest possible light-emitting areas
- LUXEON Versat Dual Color accommodates distributed styling designs which require high emitter counts

PRIMARY APPLICATIONS

- Daytime running light (DRL)
- Front turn

A wide range of styling possibilities with the LUXEON dual-color portfolio

Application examples



Light-blade solution with 12 x LUXEON Alticon SMD DT 1 W

- Dynamic DRL/turn-indicator function
- 12 x light blades with inner lenses
- ECE requirements met with excellent margin, closely below legal maximum



Performance data	CW	PCA
Drive current	310 mA	310 mA
Flux per LED	100 lm	80 lm
Flux in beam per chip	50 lm	40 lm
Optical efficiency	50%	50%



Light-guide/light-blade solution with 4 x LUXEON Alticon SMD DT 3 W

- DRL/turn-indicator function
- Light guides illuminating light blades
- Distance LED – light guide: 200 µm
- ECE requirements met with excellent margin

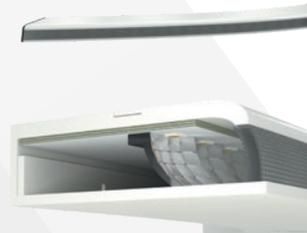


Performance data	CW	PCA
Drive current	600 mA	580 mA
Flux per LED	215 lm	150 lm
Flux in beam per chip*	85 lm	60 lm
Optical efficiency*	40%	40%



Small indirect reflectors with 21 x LUXEON Versat 3535 Dual Color

- Dynamic DRL/turn-indicator function
- 21 indirect reflectors of 15 mm x 12 mm (W x H) with an inner lens, LEDs on a flat board
- ECE requirements met with excellent margin



Performance data	CW	PCA
Drive current	140 mA	120 mA
Flux per LED	50 lm	30 lm
Flux in beam per chip*	18 lm	11 lm
Optical efficiency*	36%	37%

*including 15% losses at the cover glass

Product portfolio



LUXEON Versat 3535 Dual Color



LUXEON Alticon SMD DT 1 W



LUXEON Alticon SMD DT 3 W

Nominal drive current and temperature	150 mA, 25 °C	500 mA, 85 °C	1000 mA, 85 °C
Typical luminous flux (Cool White)	60 lm	150 lm	330 lm
Typical luminous flux (PC Amber)	40 lm	115 lm	225 lm
Mechanical dimensions	3.50 mm × 3.50 mm	2.22 mm × 2.06 mm	2.70 mm × 3.00 mm
Light-emitting area	1.48 mm × 3.05 mm	0.82 mm × 0.82 mm	1.06 mm × 1.06 mm

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