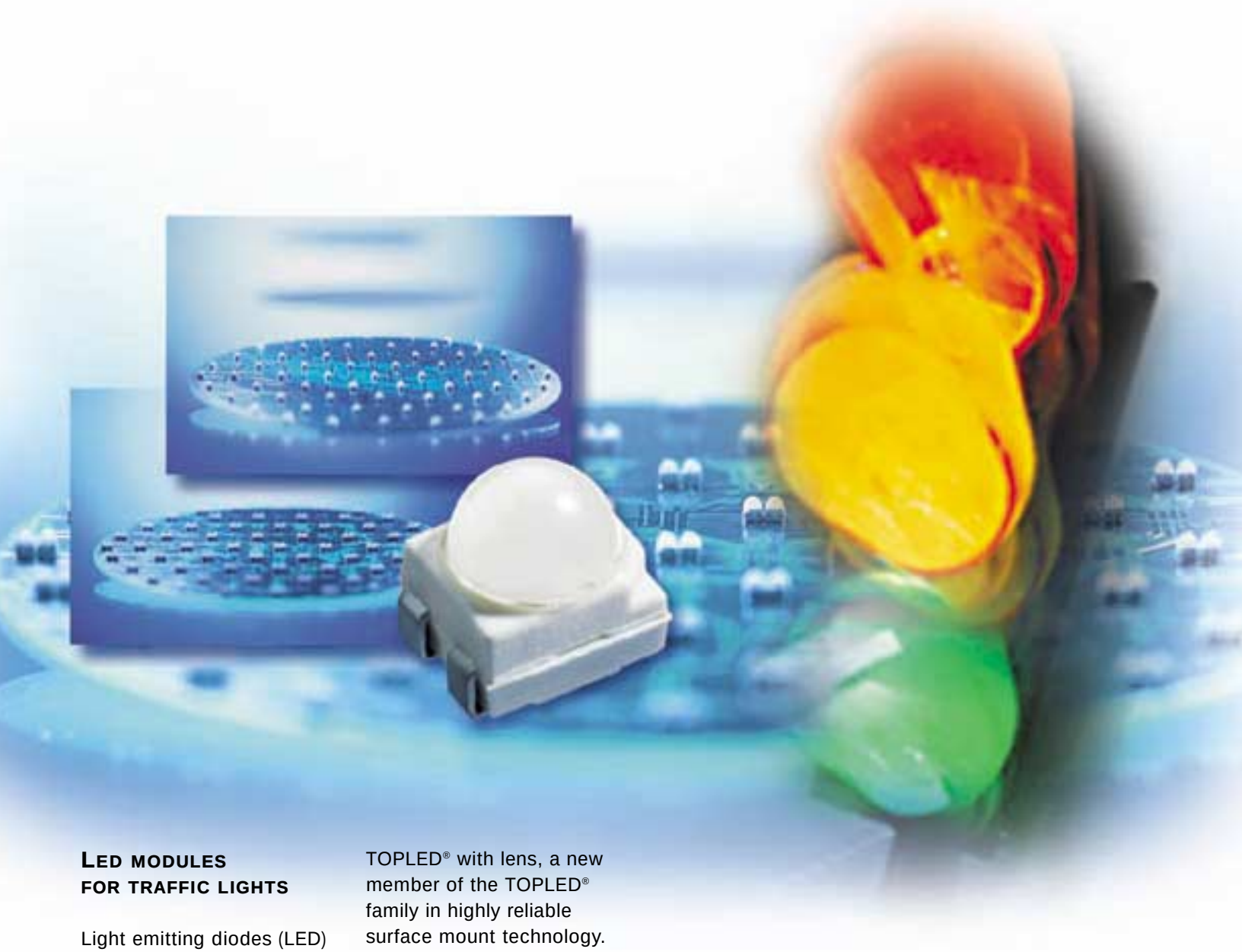
OSRAM OPTO SEMICONDUCTORS

FOR ENHANCED TRAFFIC SAFETY: trafficLED 200



LED MODULES FOR TRAFFIC LIGHTS

Light emitting diodes (LED) are being used more and more in a wide variety on the traffic market.

The traffic light LED modules from OSRAM OS are designed for 200 mm signal heads and based on Power TOPLED® with lens, a new member of the TOPLED® family in highly reliable surface mount technology. Combined with high brightness AlInGaP technology for the red an yellow module and InGaN technology for the green module high optical output power is guaranteed.

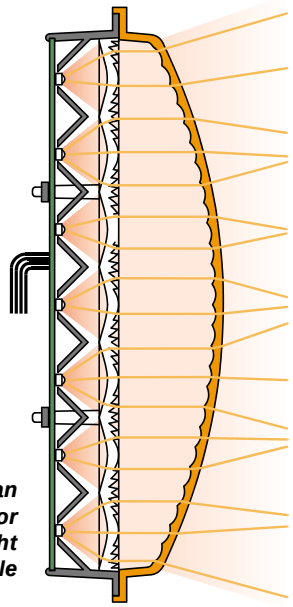
OSRAM

ADVANTAGES OF AN LED BASED TRAFFIC SIGNAL COMPARED TO AN INCANDESCENT BASED SIGNAL:

- reduced maintenance costs due to long LED lifetime
- higher safety and greater reliability
- low energy consumption due to high colour efficiency of the LED

Features of trafficLED 200:

- available in red, yellow and green.
- the modules are designed to meet the requirements of EN 12368 and ITE VTCSH part 2
- the flexible concept allows realisation of the modules with two light intensity levels
- combined with secondary optics the modules offer optimized phantom light suppression and a highly uniform luminance at the front optics
- the LED module allow a flat design of traffic signal heads
- for direct retrofit and new installations



Schematic view of an optical system for the OSRAM OS traffic light module

TECHNICAL DATA:

Light intensity level 1:

Type	Colour	Dominant wavelength (typ.)	Typ. luminous intensity (in axis) of LED module (all LED operated DC)	Power consumption (typ.)
OS-TS02A-A	Red 1	617 nm	> 200 cd	7 W
OS-TS02A-Y	Yellow	587 nm	> 200 cd	7 W
OS-TS02A-V	Green	505 nm	> 200 cd	14 W
OS-TS01A-S	Red 2	632 nm	> 133 cd	7 W

Light intensity level 2:

Type	Colour	Dominant wavelength (typ.)	Typ. luminous intensity (in axis) of LED module (all LED operated DC)	Power consumption (typ.)
OS-TS04A-A	Red 1	617 nm	> 400 cd	14 W
OS-TS04A-Y	Yellow	587 nm	> 400 cd	14 W
OS-TS03A-S	Red 2	632 nm	> 270 cd	14 W

temperature range: -40°C to +74°C

LED module for 300 mm traffic lights and white LED modules for buses and trams are in preparation.

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OSRAM Opto Semiconductors is a joint venture of OSRAM and Infineon Technologies AG (formerly the Siemens Semiconductors Division) that combines the expertise of one of the world's three largest lighting manufacturers with the know-how of one of the world's three largest manufacturers of optical semiconductors. With such a powerful alliance you can be sure that our traffic LED cannot be beaten on quality.

OSR: OS 10015 E

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