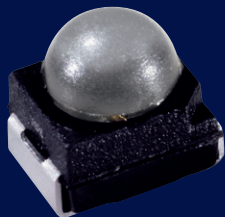




TOPLED® Black Series

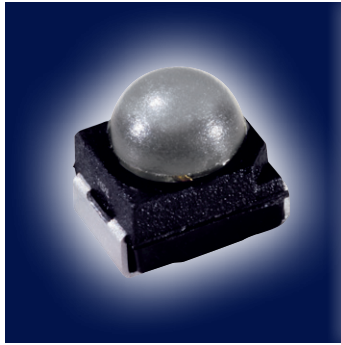
High-contrast LEDs for improved readability

The TOPLED® Black Series from OSRAM Opto Semiconductors is a range of medium-power LEDs mounted in a black standard package. The black package offers significantly higher contrast with lower reflectivity than comparable white-package devices but without compromising luminous intensity. This makes the TOPLED® Black Series ideal in display applications where contrast is key, especially in high ambient light conditions.



OSRAM
Opto Semiconductors

TOPLED® Black Series



TOPLED® Black Series



Price changer



Parking guidance system

TOPLED® Black Series			
Type 30° lens	Type 60° lens	Color	Wavelength
LR T64F	LR T66F	red	625 nm
LO T64F	LO T66F	orange	606 nm
LY T64F	LY T66F	yellow	587 nm
LT T64G	LT T66G	true green	528 nm
LB T64G	LB T66G	blue	470 nm

Advantages

The TOPLED® Black Series are LEDs with a top-mounted lens in a black package that deliver the same brightness as comparable LEDs in a white package but with a number of crucial advantages:

Higher contrast

The black package boosts contrast, greatly improving readability in any lighting conditions.

Fewer reflections

The black package eliminates reflections caused by incident light, ensuring that displays are razor sharp, even in bright sunlight.

Focused light

The TOPLED® Black Series devices feature a 30° and a 60° radiation angle optimized for displays. This means that the light is focused for the viewer, making these the perfect replacement for conventional radial LEDs.

Features

- Black SMT package with lens
- Focused radiation pattern (30° and 60° lens)
- Latest ThinGaN or Thinfilm technology
- Mid power class (binned @ 20 mA)
- High brightness in beam direction
- Available in a range of colors (red, orange, yellow, true green, blue)
- Pad layout compatible with TOPLED® and Power TOPLED®
- Reflow soldering capable
- Mercury free – RoHs compliant

Applications

Signs

- Information displays for traffic and public transport
- Price changing displays
- Signal and symbol luminaries
- Light writing displays

New possibilities

The TOPLED® Black Series is ideal for any kind of display lettering.

TOPLED® Black Series on the Internet:

www.osram-os.com/topled-black

For further information on the available products please visit our product catalog at <http://catalog.osram-os.com>

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