



VISIBLE

# Diamond DRAGON®

## The single-chip LED for ultimate color and brightness

The Diamond DRAGON®, OSRAM Opto Semiconductors' brightest single-chip LED, is designed for use in office and residential lighting as well as automotive, industrial and signage applications.

Positioned between the 3-watt Platinum DRAGON® and the 10-watt OSTAR®, it comes in the complete range of colors. And with its exceptional output, excellent thermal management and durability, it's the designer's LED of choice in a wide range of applications.



Opto Semiconductors

**OSRAM**

## Diamond DRAGON®



Diamond DRAGON®.



Daytime running light.



Architectural lighting.

Diamond DRAGON® Type	Color	Wavelength	Typ. Brightness
LR W5AP	Red	625 nm	150 lm @ 1.4 A
LA W5AP	Amber	617 nm	185 lm @ 1.4 A
LY W5AP	Yellow	590 nm	140 lm @ 1.4 A
LT W5AP	True Green	528 nm	185 lm @ 1.4 A
LB W5AP	Blue	470 nm	75 lm @ 1.4 A
LD W5AP	Deep Blue	455 nm	1250 mW @ 1.4 A
LW W5AP	White	x/y 0.32/0.31*	225 lm @ 1.4 A
LUW W5AP	Ultra white	x/y 0.32/0.31*	260 lm @ 1.4 A
LCW W5AP	Warm White	x/y 0.42/0.40*	160 lm @ 1.4 A

\* Color coordinates acc. to CIE 1931

### Advantages

#### Outstanding brightness

The Diamond DRAGON® features the latest chip technology and a silicone lens for higher light output.

#### Uncompromising quality

Excellent thermal management and the use of proven materials ensure that the Diamond DRAGON® has the durability to meet tough quality requirements.

#### Maximum flexibility

Its solder pad compatibility with our Golden and Platinum DRAGON® products and its comprehensive range of colors, including all white color

temperatures, mean the Diamond DRAGON® gives you maximum flexibility for its use in a wide variety of applications.

#### Features

- All colors: red, amber, yellow, true green, blue, deep blue, white, ultra white and warm white
- High junction temperature of up to 175 °C
- Low thermal resistance of 2.5 K/W (typ.), max. 5 K/W
- High maximum forward current of up to 2 A
- High efficiency
- Suitable for standard IR reflow soldering

### Applications

#### General lighting

- Retrofits
- Small spotlights
- Recessed downlights
- Stage lighting
- Architectural illumination

#### Automotive exterior

- Daytime running light
- Front turn indicator

#### Industry & signs

- Emergency lights
- Warning lights (road works, lighthouses, buoys)
- Archtainment (low resolution video walls on building facades)

#### Diamond DRAGON® on Internet:

[www.osram-os.com/dragon](http://www.osram-os.com/dragon)

### Asia

OSRAM Opto Semiconductors Sdn. Bhd  
(Malaysia), Shanghai Representative Office:  
Room 2301-2302, Harbour Ring Plaza,  
No. 18 Xizang (M.) Road, Shanghai 200001  
Phone: +86 21 5385 2699  
Fax: +86 21 5385 2868  
E-mail: [prasia@osram-os.com](mailto:prasia@osram-os.com)

### Europe

OSRAM Opto Semiconductors GmbH  
Leibnizstraße 4  
D-93055 Regensburg, Germany  
Phone: +49 941 850 1700  
Fax: +49 941 850 3302  
E-mail: [support@osram-os.com](mailto:support@osram-os.com)

### USA

OSRAM Opto Semiconductors Inc.  
2650 San Tomas Expressway, Suite 200  
Santa Clara, CA 95051, USA  
Phone: +1 888 446-7726  
Main number: +1 408 588-3800  
Fax: +1 408 844-9350  
E-mail: [info@osram-os.com](mailto:info@osram-os.com)