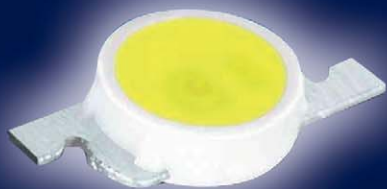




# PointLED®

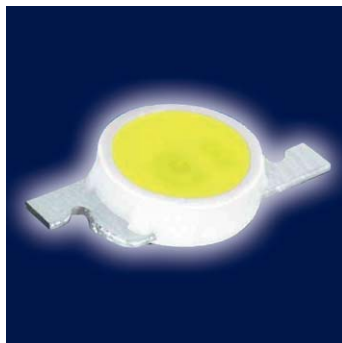
## Flexible space saver

Unlike conventional SMT LEDs, OSRAM Opto Semiconductors' PointLED® is a round component, capable of through-hole mounting. This means it doesn't protrude above the surface of the circuit board, making it the ideal choice in all kinds of applications where space is critical. It can also be surface-mounted, making it the ultimate flexible choice of LED.



Opto Semiconductors

**OSRAM**



PointLED®.



Optical indicator.



Cellular phone keypad.

PointLED® Thinfilm/ThinGaN®				PointLED®			
Type	Color	Wavelength	Typ. Output/Current	Type	Color	Wavelength	Typ. Output/Current
LS P47F	super red	633 nm	800 mcd @ 30 mA	LA P47B	amber	617 nm	500 mcd @ 30 mA
LR P47F	red	625 nm	1,000 mcd @ 30 mA	LY P47B	yellow	587 nm	560 mcd @ 30 mA
LA P47F	amber	617 nm	1,600 mcd @ 30 mA	LY P476	yellow	587 nm	180 mcd @ 20 mA
LY P47F	yellow	590 nm	1,000 mcd @ 30 mA	LB P473	blue	470 nm	56 mcd @ 10 mA
LW P4SG	white	x/y 0.33/0.33*	900 mcd @ 20 mA	LW P473	white	x/y 0.32/0.31*	180 mcd @ 10 mA
				PointLED® Low Current			
				LS P47K	super red	630 nm	6 mcd @ 2 mA
				LY P47K	yellow	587 nm	9 mcd @ 2 mA
				LG P47K	green	570 nm	5 mcd @ 2 mA

\* Color coordinates acc. to CIE 1931

## Advantages

PointLED®, a totally different miniature package, ideal for designs with limited space.

## Flexible assembly

The package offers flexibility for various assembly configurations. Depending on the application, it can be mounted through a hole or on top of the PCB.

## High efficiency optimized for backlighting

The new PointLED® is optimized for coupling into light guides. It is ideal for extremely flat backlights due to zero height for LCD illumination. The symmetric radiation pattern allows even backlighting. Long life silicone packaged in white PointLEDs®.

## Features

These features set the PointLED® apart from the rest:

- The PointLED® is characterized by a round reflector and a centered die.
- The PointLED® has a high ESD protection of 2 kV.
- The height above the PCB is just 0.23 mm if the PointLED® is mounted through a hole.
- The height of the reflector is 0.50 mm, ideal for thin PCB.
- The PointLED® can be processed using IR reflow soldering.
- The PointLED® is lead (Pb) free and RoHS compliant.
- Top mount or reverse mount assembly for ease of manufacturing

## Applications

If you are looking for something different to use in your applications, try our new PointLED®.

## Consumer & communication

- Key pad illumination
- Backlighting of cellular phones, switches, displays

## Automotive

- Interior: Backlighting of pointers, warning lights
- Exterior: Central high mounted stop light

## Industry

- Optical indicators

## PointLED® on Internet:

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

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