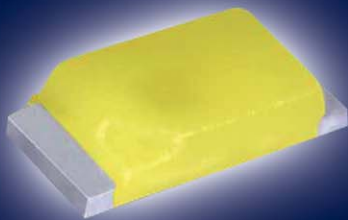




SmartLED® 0603

Low-height LED with a powerful performance

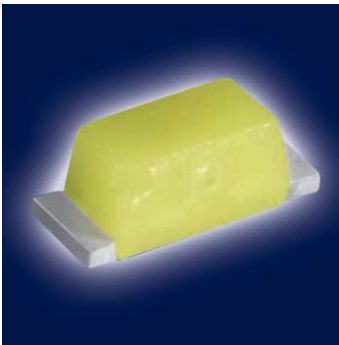
OSRAM Opto Semiconductors has redefined standards with its new SmartLED®. Its standardized footprint allows flexibility into current designs. This powerful and extremely reliable LED comes in sizes just 0.6 mm and 0.3 mm high, making it ideal for applications where space is critical.



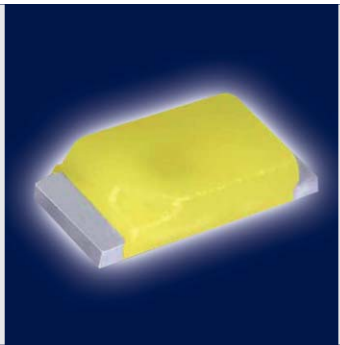
Opto Semiconductors

OSRAM

SmartLED® 0603



SmartLED® 0.6 mm height.



SmartLED® 0.3 mm height.



Navigation system.

SmartLED® 0.6 mm Height				SmartLED® 0.6 mm Height, Low Current			
Type	Color	Wavelength	Typ. Output/Current	Type	Color	Wavelength	Typ. Output/Current
LS L296	super red	633 nm	56 mcd @ 20 mA	LS L29K	super red	630 nm	4 mcd @ 2 mA
LA L296	amber	615 nm	90 mcd @ 20 mA	LO L29K	orange	606 nm	7 mcd @ 2 mA
LO L296	orange	606 nm	100 mcd @ 20 mA	LY L29K	yellow	587 nm	6 mcd @ 2 mA
LY L296	yellow	587 nm	90 mcd @ 20 mA	LG L29K	green	570 nm	3 mcd @ 2 mA
LP L296	pure green	560 nm	10 mcd @ 20 mA	LT L29S	true green	528 nm	71 mcd @ 10 mA
LB L29G	blue	470 nm	90 mcd @ 10 mA	SmartLED® 0.3 mm Height, Low Current			
LB L293	blue	470 nm	28 mcd @ 10 mA	Type	Color	Wavelength	Typ. Output/Current
LCB L283	blue lagune	x/y 0.15/0.24*	56 mcd @ 10 mA	LW L383	white	x/y 0.30/0.28*	112 mcd @ 10 mA
LCW L28G	warm white	x/y 0.42/0.40*	180 mcd @ 10 mA	LW L38G	white	x/y 0.30/0.28*	112 mcd @ 5 mA
LW L28G	white	x/y 0.30/0.28*	200 mcd @ 10 mA				
LW L283	white	x/y 0.32/0.31*	100 mcd @ 10 mA				

* Color coordinates acc. to CIE 1931

Advantages

SmartLED® 0603 takes your design to a new dimension.

High performance

Don't let the size fool you. This tiny component has great characteristics. With low thermal resistance and high reliability, the SmartLED® opens new areas of application.

Flexibility

The SmartLED® allows for individual and varied designs due to its complete color portfolio, including crystal colors.

Power saving

SmartLED® delivers energy saving features such as low forward voltage (V_f) and high brightness, resulting in overall energy savings for most applications.

Asia

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Features

Always one step ahead.

- SmartLED® is available in the entire color spectrum – any color you want for your design.
- Low height product available in 0.6 mm and 0.3 mm height
- High reliability because of a lead-frame based design for better heat dissipation and reduced transition resistance
- Lead (Pb) free – RoHS compliant

Applications

Applications are supported with our progressive technology. SmartLED® 0603.

Europe

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Communication

- Backlighting of keypads
- Effect and fun light

Industry

- Information signs
- Indicators

General lighting

- Miniaturized color effects
i. e. starlight ceiling
- Christmas tree illumination

Automotive

- Navigation systems
- Radio aftermarket
- Signal lighting arrays

And many other applications.

SmartLED® on Internet:

www.osram-os.com/smartled/

USA

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