

One step ahead.



SmartLED® 0603 Big Foot

Opto Semiconductors

OSRAM



One step ahead.

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OSRAM Opto Semiconductors once again leaps ahead of the competition with the new SmartLED®. This tiny device is notable for its powerful performance and features a highly reliable design. And here comes the real hit – the footprint lets you use the SmartLED® as standard. So bring on SmartLED® and kick out competing designs.

BENEFITS

How our SmartLED® 0603 Big Foot makes your work one step ahead.

High performance

Don't let the size fool you. This is a tiny component with really great characteristics. In terms of humidity level- and thermal resistance performance the SmartLED® product family is a real Big Foot.

Flexibility

One step ahead – the SmartLED® features more design-in flexibility.

Compatibility

The new SmartLED® footprint is identical with the CHIPLED 0603 footprint.

Enhanced applications

The SmartLED® is highly reliable. That allows it to enter new areas of application.

FEATURES

The proof of being one step ahead.

- The operating temperature ranges from - 40°C to +100°C
- The new footprint of the SmartLED® product family is 100% compatible to 0603
- The products are lead (Pb) free, RoHS compliant and only pure tin is used
- The high reliability is due to a leadframe based design
- The products are also wave solderable (TTW)
- The SmartLED® proofs low thermal resistance and capability for 85°C/85r.h.
- Last but not least the SmartLED® 0603 Big Foot is only of 0.6 mm height

APPLICATIONS

We support your applications with a step ahead technology. SmartLED® 0603 Big Foot.

Automotive

- Navigation systems
- Automotive features, like switches

Industry

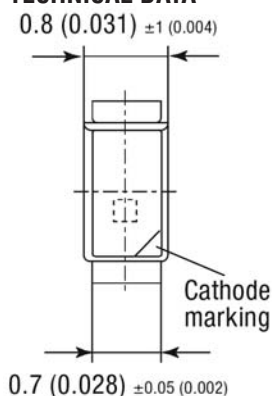
- Displays for industrial control-systems
- Traffic displays
- Miniaturized color effects e.g. starlight ceiling

Consumer & Communication

- Cellular phone displays
- Backlit keypads
- Color spotlight and backlighting

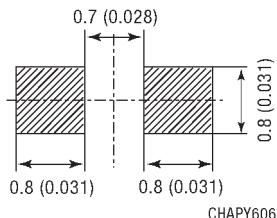
And many further applications.

TECHNICAL DATA



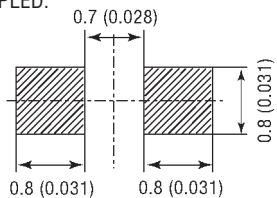
Compatibility of footprints:

SmartLED® 0603 Big Foot:



CHAPY606

CHIPLED:



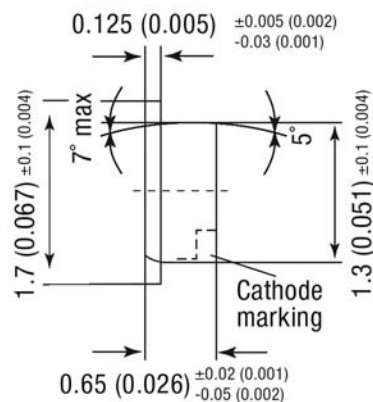
CHAPY606

PRODUCTS

Product Name

LS L296 & LS L29K
LA L296
LO L296 & LO L29K
LY L296 & LY L29K
LG L29K
LT L296
LT L29S
LB L293 & LB L29S & LB L29G
LW L283 & LW L28S & LW L28G

* Color coordinates acc. to CIE 1931(white)



GPLY7057

SmartLED® 0603 - typ. Output / Current:

Color / Type / Output – Current

White	LW L283	100mcd	@10mA
	LW L28S	56mcd	@10mA
	LW L28G	200mcd	@10mA
Blue	LB L293	28mcd	@10mA
	LB L29S	14mcd	@10mA
	LB L29G	56mcd	@10mA
True Green	LT L29S	71mcd	@10mA
	Pure Green LT L29S	10mcd	@20mA
	Green LG L29K	3mcd	@2mA
Yellow	LY L296	100mcd	@20mA
	LY L29K	6mcd	@2mA
Orange	LO L296	100mcd	@20mA
	LO L29K	7mcd	@2mA
Amber	LA L296	90mcd	@20mA
	Super-Red LS L296	71mcd	@20mA
	LS L29K	4mcd	@2mA

Color

Super-Red
Amber
Orange
Yellow
Green
Pure Green
True Green
Blue
White

Wavelength

633nm
615nm
606nm
587nm
570nm
560nm
528nm
470nm
x/y 0,33/0,33*



Cellular phone displays, Automotive features, Navigation systems.

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