

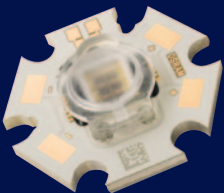


INFRARED

IR OSRAM OSTAR Family

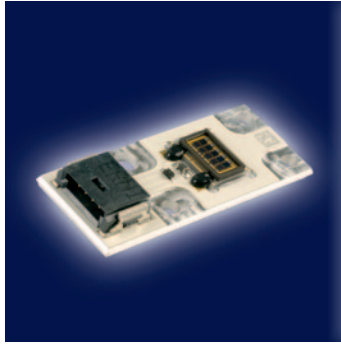
Simply best-in-class

OSRAM Opto Semiconductors' innovative IR OSRAM OSTAR Family LEDs offer you the most powerful infrared LED arrays in the world. Designed specifically for CCTV applications and for use in night vision equipment, they deliver a wavelength specially adapted to CMOS/CCD camera systems.

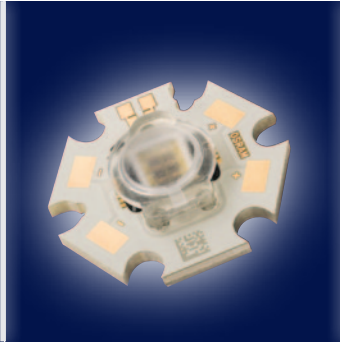


OSRAM
Opto Semiconductors

IR OSRAM OSTAR Family



OSRAM OSTAR Observation



OSRAM OSTAR Lighting



Night vision system

Advantages

- High optical IR output, even in continuous operation
- Compact size, multi chip array
- Certified for automotive applications at temperatures up to 125 °C (SFH 4730 and SFH 4740)
- Exceptionally low thermal resistance for optimum thermal management

Features

- Small dimensions, big performance
- Wavelength suitable for CCD and CMOS cameras
- Low thermal resistance
- Efficient Thinfilm technology offers continuous performance increases in the future
- External optics already available for SFH 4750 and SFH 4751

Applications

OSRAM Opto Semiconductors' innovative Infrared OSRAM OSTAR LEDs are the optimum choice when maximum optical output power is needed for long distance illumination applications. In DC operation it offers up to 4.3 W optical power, in pulsed mode even up to 18 W are possible.

Examples

- Night vision systems
- Long distance CCTV
- Automatic number plate recognition
- Intelligent transportation systems
- Machine vision systems

Products

OSRAM OSTAR Observation IR LED

- SFH 4730 – black frame (reduces stray light)
- SFH 4740 – white frame

OSRAM OSTAR Lighting IR LED

- SFH 4750
- SFH 4751

Technical Data

SFH 4730

Size: 3.3 x 1.35 cm
Output power: 3.6 W at 1 A (DC)
15 W at 5 A (pulse)

Thermal resistance: 2.8 K/W

Wavelength: 850 nm

Package type: Black frame

SFH 4740

Size: 3.3 x 1.35 cm
Output power: 4.3 W at 1 A (DC)
18 W at 5 A (pulse)
Thermal resistance: 2.8 K/W
Wavelength: 850 nm
Package type: White frame

SFH 4750

Size: \varnothing 2.3 cm
Output power: 3.5 W at 1 A (DC)
14 W at 5 A (pulse)
Thermal resistance: 3 K/W
Wavelength: 850 nm

SFH 4751

Size: \varnothing 2.3 cm
Output power: 3.0 W at 1 A (DC)
12 W at 5 A (pulse)
Thermal resistance: 3 K/W
Wavelength: 940 nm

IR OSRAM OSTAR Family on the Internet:

www.osram-os.com/ir-ostar

Asia

OSRAM Opto Semiconductors Asia Ltd.
30/F China Resources Building
26 Harbour Road, Wan Chai
Hong Kong SAR
Phone: +852 3652 5522
Fax: +852 2802 0880
E-mail: 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

USA

OSRAM Opto Semiconductors Inc.
1150 Kifer Road, Suite 100
Sunnyvale, CA 94086, USA
Main Phone number: (408) 962-3700
Main Fax: (408) 738-9120
Inbound Toll Free: (866) 993-5211
E-mail: info@osram-os.com