

New Infrared OSOLON[®] P1616...with lens!

Market leading IR LED Emitters for consumer and industrial applications.

amun OSRAM

**Smallest size, higher power – typ. 1150mW out of 1.6 x 1.6 mm².
Now available for design-in.**



Characteristics

- Wavelength 850 nm / 940 nm
- P_{op} 1150 mW (@1A)
- Radiant intensity **680 mW/sr**
- Junction Temp. T_{j max.} 145°C
- Spectral bandwidth 30 / 37 nm

Optics and package

- Footprint **1.60 x 1.60 mm²**
- Height **1.71 mm**
- T_{op} - 40 °C – 105 °C
- R_{thJS} elec. (max.) 8.1 K/W
- R_{thJS} real (max.) 13 K/W
- Half angle **$\pm 35^\circ$**

Electrical specification

- V_f (typ.) 2.95 V @1A (940nm)
3.25 V @1A (850nm)
- I_f (max.) DC 1.0 A
- I_f (max) pulse 2.0 A
- ESD stability max. 2 kV

Target Applications



- Computing
- Mobile Devices



- CCTV, Security
- Smart Home



- Machine Vision
- Spectral Sensing