

**Description:** Blue superluminescent light emitting diode

**Optical output power:** 5 mW

**Package:** TO-56      **Product number:** EXS210014-00

Speckle-free light source with low etendue. Ideal for pumping micro-displays or head-up displays, for holography, metrology or spectroscopy. Can be used as tuneable laser when fit to external cavities.

### Maximum ratings

Parameter	Symbol	Min	Max	Unit
Output power	P	-	10	mW
Forward current	$I_F$		200	mA
Reverse voltage	$V_R$		-2	V
Forward voltage	$V_F$		7.0	V
Storage temperature	$T_{stg}$	-40	85	°C

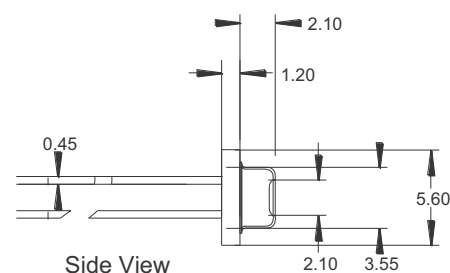
### Operating characteristics (T<sub>case</sub>: 25 °C; P: 5mW)

Parameter	Symbol	Min	Typ	Max	Unit
Forward current	$I_F$	110	140	180	mA
Forward voltage	$V_F$	-	5.5	6.0	V
Centre wavelength	$\lambda$	430	440	-	nm
3dB bandwidth	$\Delta\lambda$	-	9	-	nm

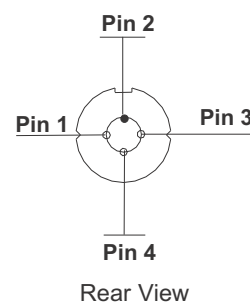
**Preliminary Specification:** this product is currently under development. The datasheet contains preliminary data. Additional data may be added at a later date. EXALOS reserves the right to change specifications at any time without notice in order to supply the best possible product.



### Drawings



Side View



Rear View

Pin	Function
1	SLED ANODE (+)
2	SLED CATHODE (-), CASE
3	Not connected
4	Not connected

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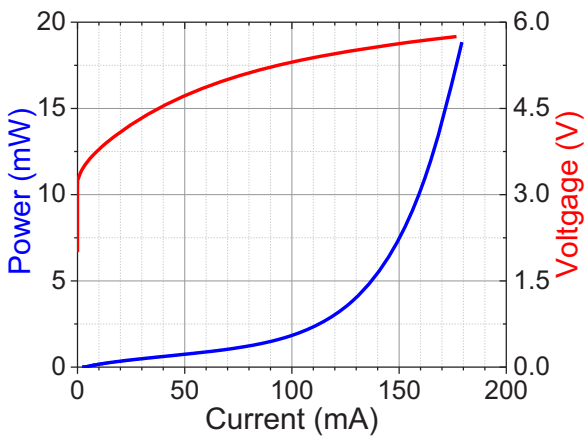
[sales@exalos.com](mailto:sales@exalos.com)

[www.exalos.com](http://www.exalos.com)

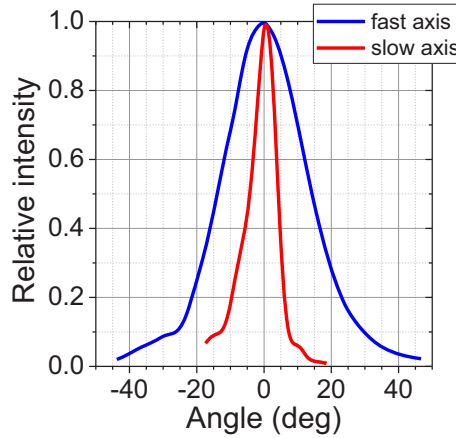
**Typical characteristics:**

These characteristics are relative to a particular device under test. Device to device variations may occur on a different set of samples.

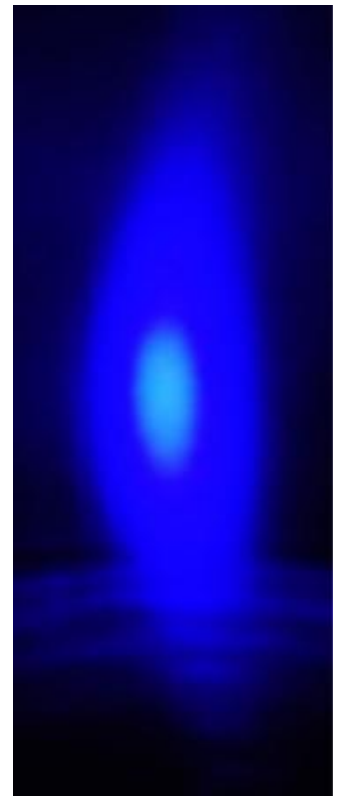
*optical power and operating voltage*



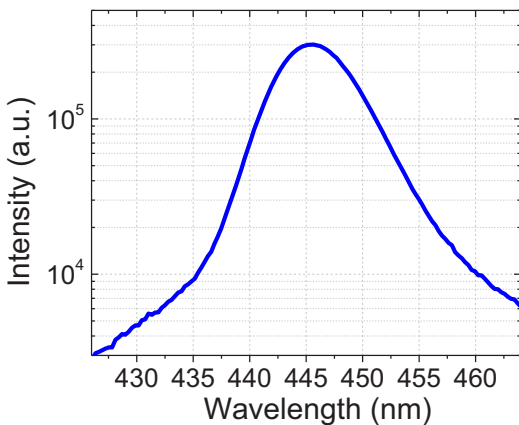
*far-field light divergence*



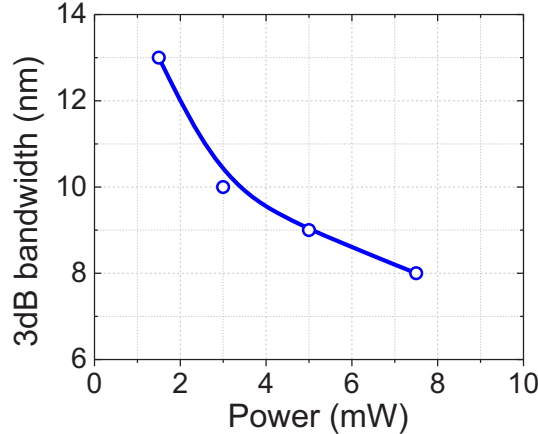
*single-mode light pattern*



*typical spectrum*



*3 dB bandwidth*



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