

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

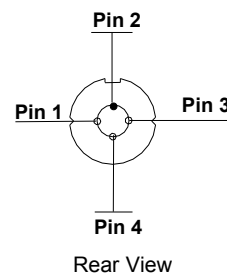
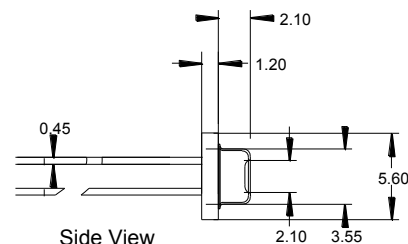
Operating characteristics (T_{case}: 25 °C; P: 5mW)

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	λ	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



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

EXALOS AG

Wagistrasse 21 CH-8952 Schlieren, Switzerland

Tel. +41 43 444 60 90 Fax +41 43 444 60 99

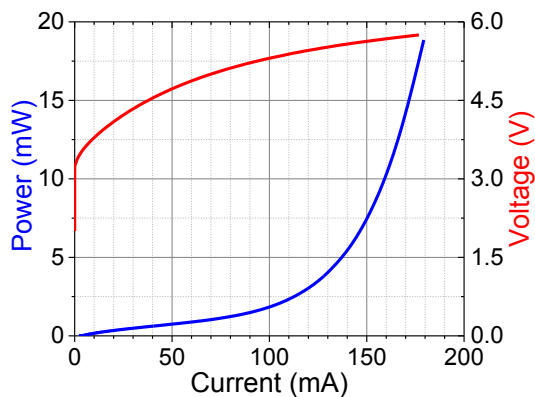
sales@exalos.com

www.exalos.com

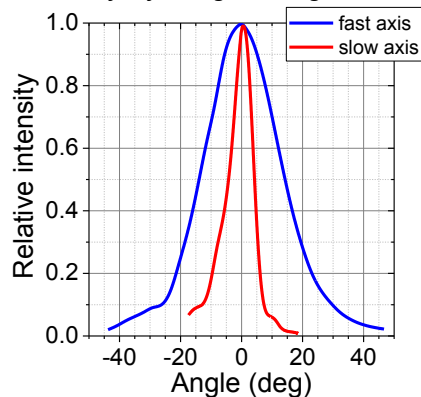
Typical characteristics:

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

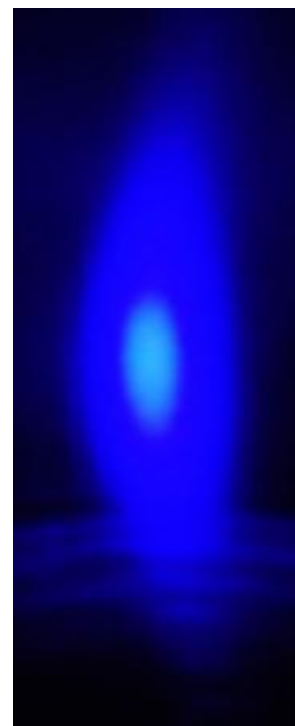
optical power and operating voltage



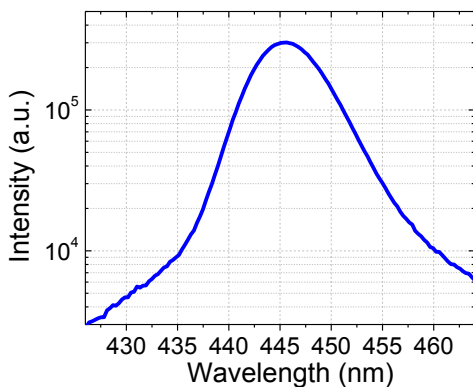
far-field light divergence



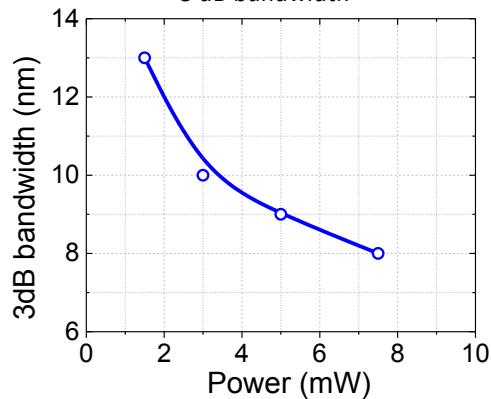
single-mode light pattern



typical spectrum



3 dB bandwidth



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