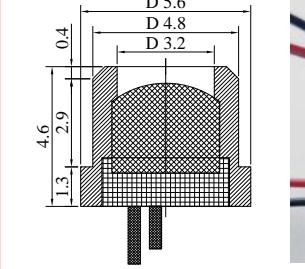
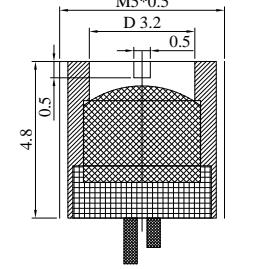
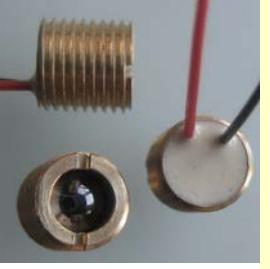


Optically Immersed 1.95 μm LED in heat-sink optimized housing

LED19Su, LED19Sr

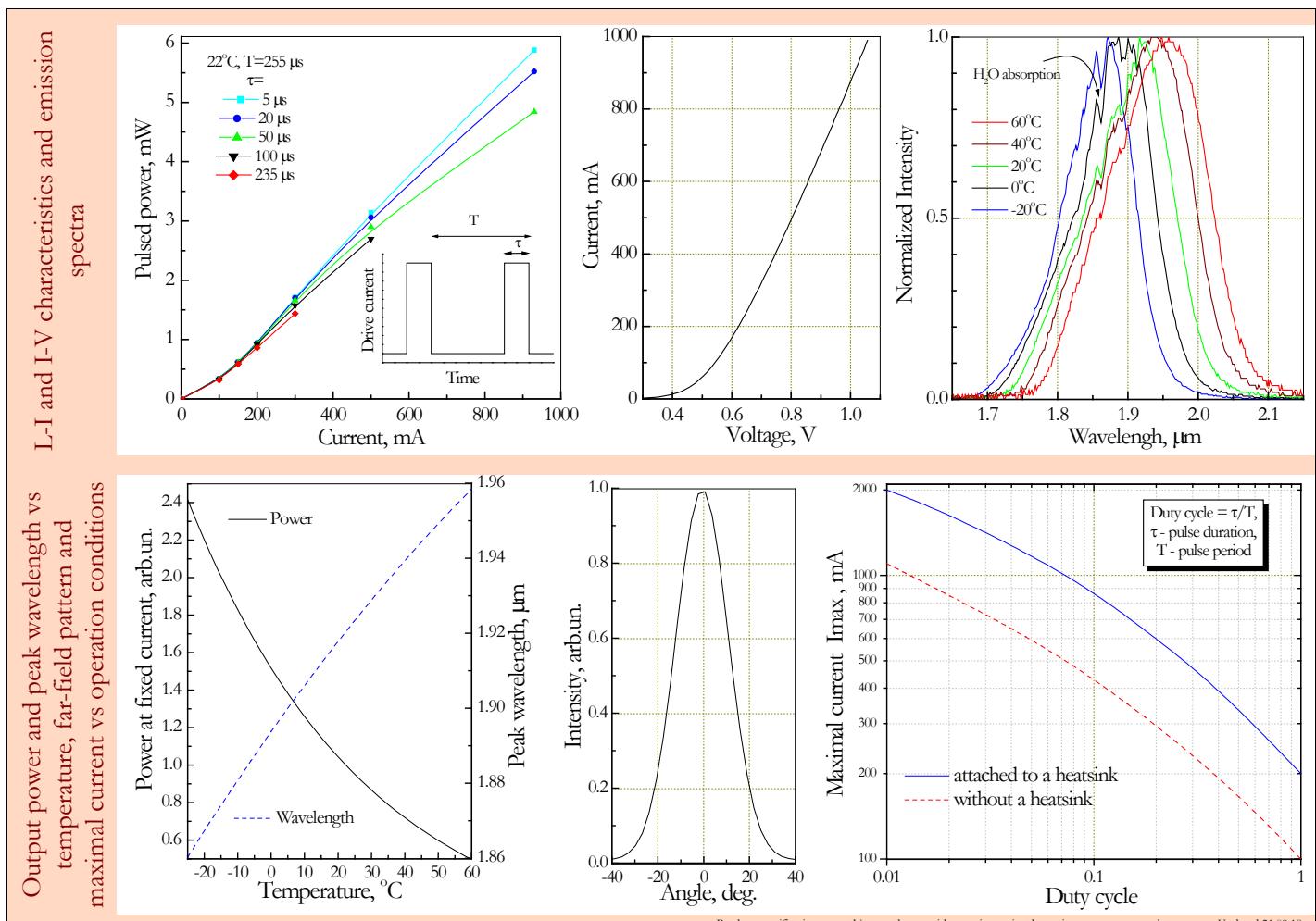
Peak wavelength λ_{\max}	μm	1.9
Pulse power P_{pulsed}	mW	Drive current 1 A, 2 % duty cycle
Quasi-CW power P_{QCW}	mW	Drive current 0.4 A, 50% duty cycle
CW power P_{CW}	mW	Drive current 0.2 A

Code	Emission size, mm	Lens material	Far-field pattern FWHM, deg.	Optical axis deviation, deg.	Optical power deviation, %	Operation conditions, $^{\circ}\text{C}$	Lifetime, hrs	Polarity
LED19Su/Sr	\varnothing 3.2	Si	~15	\leq 5	\pm 25	-25÷+60	>80 000	Red wire – positive, Black wire – negative

Product view			LED19Su			LED19Sr
	Growth of narrow gap semiconductor alloys onto n^{+} -GaSb substrate; Flip-chip design of LEDs; Optical coupling through the use of chalcogenide glasses and Si lenses with antireflection coating	3-fold increased LED output power; Beam collimation within ~15 deg; Low serial resistance; Small on-off time (tenths of ns); Low power consumption (\leq 0.1 W)				

Emission beam divergence is small and thus we recommend adjusting LED position regarding to the detector system before final evaluation/use of the devices. We recommend if possible using low duty cycle mode of operation with $I < 0.5 \times I_{\max}$ so that higher efficiency and long term stability of a LED are achieved. **Data are valid for 22°C and LED attached to a heatsink.**

Heatsink is important for LED operation especially in the CW mode.



Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 21.09.18



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