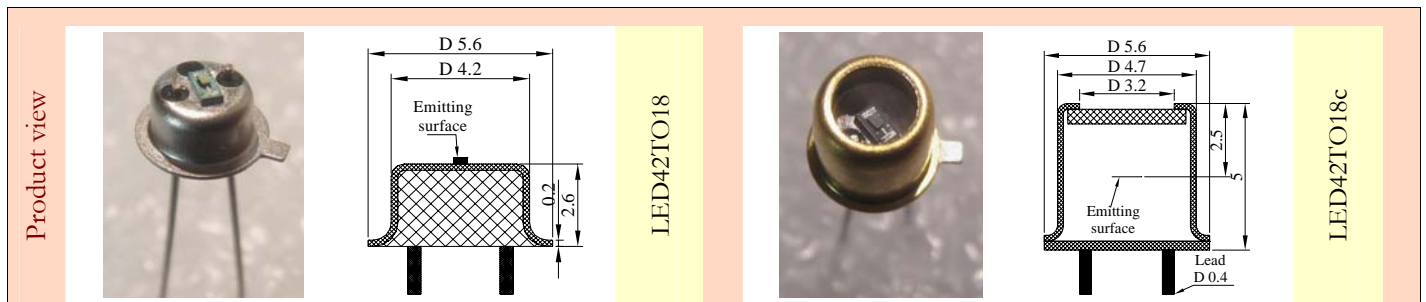


LED $\lambda=4.2 \mu\text{m}$ in TO-18 housing

LED42TO18

T=22 °C	Without cap	Peak wavelength λ_{max}	μm	4.15÷4.25	
		Pulse power P_{pulsed}	μW	Drive current 1 A, 2 % duty cycle	≥ 15
		Quasi-CW power P_{QCW}	μW	Drive current 100 mA, 50% duty cycle	≥ 4
		CW power P_{CW}	μW	Drive current 50 mA	≥ 2.5
T=77 K	Without cap	Peak wavelength λ_{max}	μm	3.5÷3.6	
		Pulse power P_{pulsed}	mW	Drive current 1 A, 2 % duty cycle	≥ 0.5
		Quasi-CW power P_{QCW}	mW	Drive current 100 mA, 50% duty cycle	≥ 0.15
		CW power P_{CW}	mW	Drive current 50 mA	≥ 0.1

Model	Package	Cap with window	Emitting area, mm	Far Field FWHM, deg.	Operation conditions	Polarity
LED42TO18	TO18	-	0.25×0.25	140	77 ÷ 350 K	Short leg or key is negative
LED42TO18c	TO18	Sapphire		60	-25÷+80 °C	

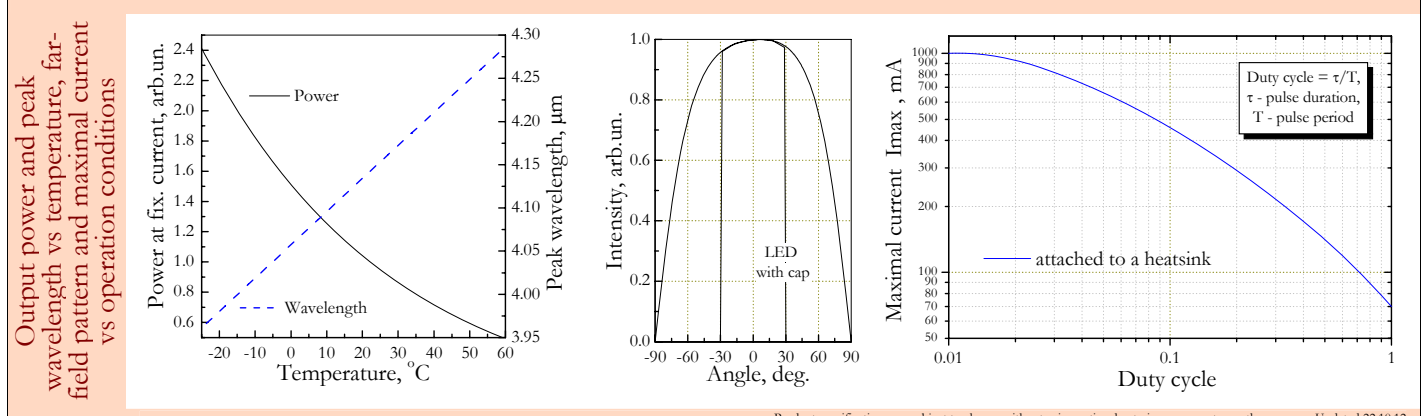
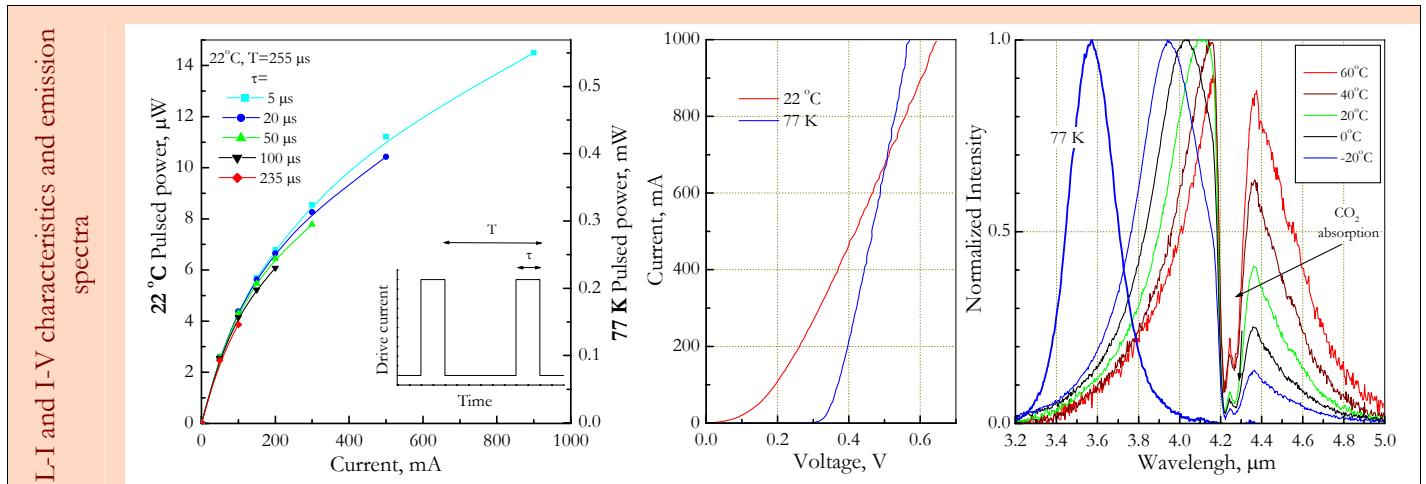


Features

Growth of narrow gap semiconductor alloys onto n⁺-InAs substrate; Flip-chip; Operation at 77 K (with no cap model)

Low serial resistance; Small on-off time (tenths of ns); Low power consumption ($\leq 0.1 \text{ W}$)

We recommend if possible using low duty cycle mode of operation with $I < 0.5 \times I_{\text{max}}$ so that higher efficiency and long term stability of a LED are achieved.



Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 22.10.12



ООО «ИюффеЛЕД»
IoffeLED, Ltd

Politechnicheskaya 26,
St.Petersburg, 194021, RUSSIA

www.ioffeled.com;
e-mail: Mremenny@mail.ioffe.ru
Tel./fax: +7 812 297 7446