

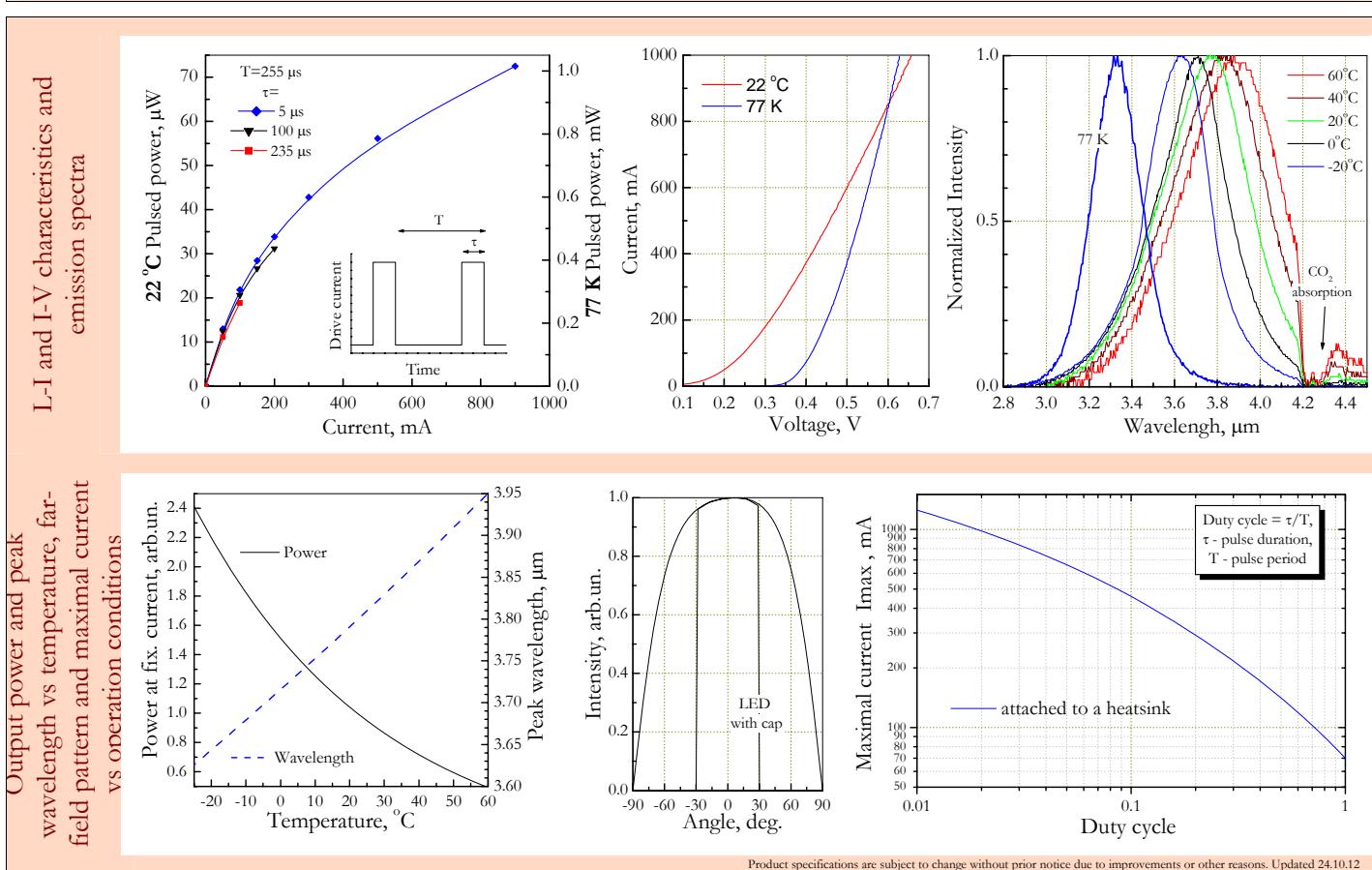
LED $\lambda=3.8 \mu\text{m}$ in TO-18 housing

LED38TO18

T=22 °C	Peak wavelength λ_{\max}	μm	3.75÷3.85		
	Without cap	Pulse power P_{pulsed}	mW	Drive current 1 A, 2 % duty cycle	≥ 0.07
		Quasi-CW power P_{QCW}	mW	Drive current 100 mA, 50% duty cycle	≥ 0.02
		CW power P_{CW}	mW	Drive current 50 mA	≥ 0.01
T=77 K	Without cap	Peak wavelength λ_{\max}	μm	3.3÷3.4	
		Pulse power P_{pulsed}	mW	Drive current 1 A, 2 % duty cycle	≥ 1
		Quasi-CW power P_{QCW}	mW	Drive current 100 mA, 50% duty cycle	≥ 0.25
		CW power P_{CW}	mW	Drive current 50 mA	≥ 0.14

Model	Package	Cap with window	Emitting area, mm	Far Field FWHM, deg.	Operation conditions	Polarity
LED38TO18	TO18 (TO46)	-	0.25×0.25	140	77 ÷ 350 K	Short leg or key is negative
LED38TO18c	TO18 (TO46)	Sapphire		60	-25÷+60 °C	

Product view			LED38TO18			LED38TO18c
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 (≤ 0.1 W)		
	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.					



Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 24.10.12



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