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Specifications (T=24 °C)

3.9 μm Optically Pumped LED			OPLED39IL	
Optically immersed				
Peak wavelength	λ	μm	3.9±0.1	
Spectral FWHM		μm	0.7 to 0.75	
Current test conditions:	Pulse duration	τ	≤10	
	Pulse period	T	≥1000	
Pulse power at I=1000 mA		P _{pulse}	μW	250±40

Package Detail

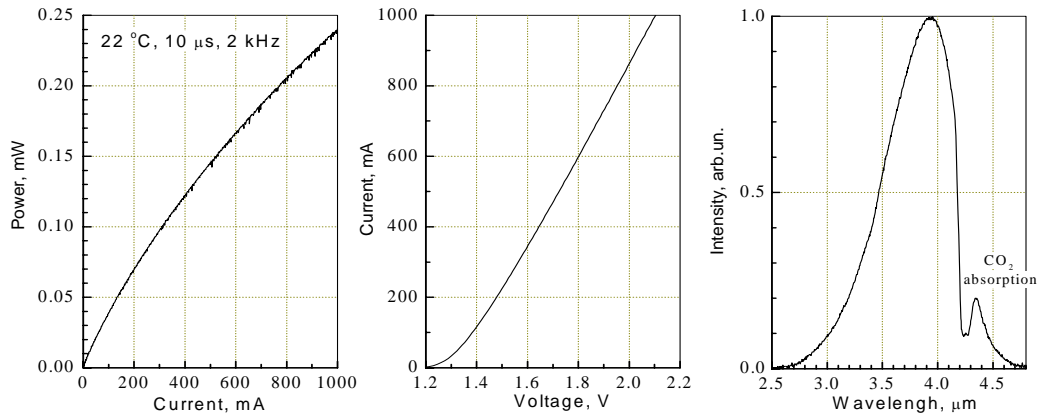
Package	Active area	Far-field pattern FWHM	Far-field pattern deviation off normal	Operation (storage) conditions	Polarity
	mm	deg.	deg.	°C	
TO-39	Ø 3.2	≤40	±10	-25 to +45	short leg or key is negative

Type No.	OPLED39IL	
Package photo	 <p>also called "TO-5"</p>	

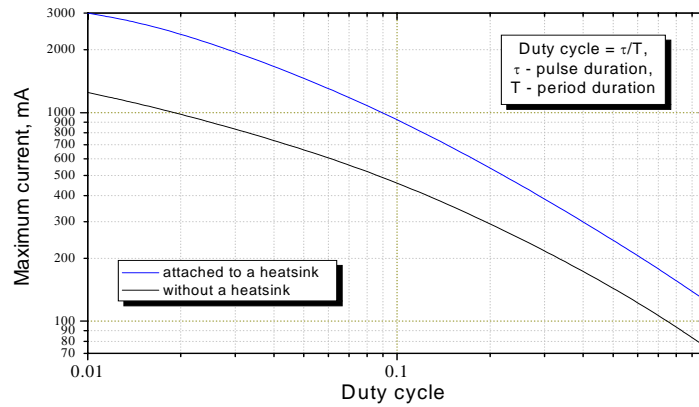
These LEDs represent an entirely NEW technology. They consist of engineered materials, made to fluoresce under near-IR illumination. Quite ordinary, inexpensive and robust GaAs LEDs in the 0.87 micron range are used to optically pump the engineered material.

The electrical characteristics of these devices are the electrical characteristics of the GaAs pump LEDs. The optical characteristics are those of the engineered material when irradiated by the near-IR pump device.

Current-voltage curve, current dependence of the output power; and emission spectrum at 22 °C.



Max current vs. operation conditions



Output power and emission spectra maximum vs. temperature and far-field pattern

