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Specifications (T=22 °C)

Optically Immersed 4.2 μm LED in heat-sink optimized housing			LED42SC	
Peak wavelength	λ	μm	4.15±0.05	
Spectral width FWHM		μm	0.45±0.05	
Current test conditions:	Pulse duration	τ	≤10	
	Pulse period	T	≥1000	
Voltage at drive current I=1 A	U _{pulse}	V	0.5 to 0.6	
Pulsed power at I=1 A	P _{pulse}	μW	≥120	
CW power at I=200 mA (attached to a heatsink)	P _{cw}	μW	≥50	
Switching time	τ	ns	≤20	

Package detail

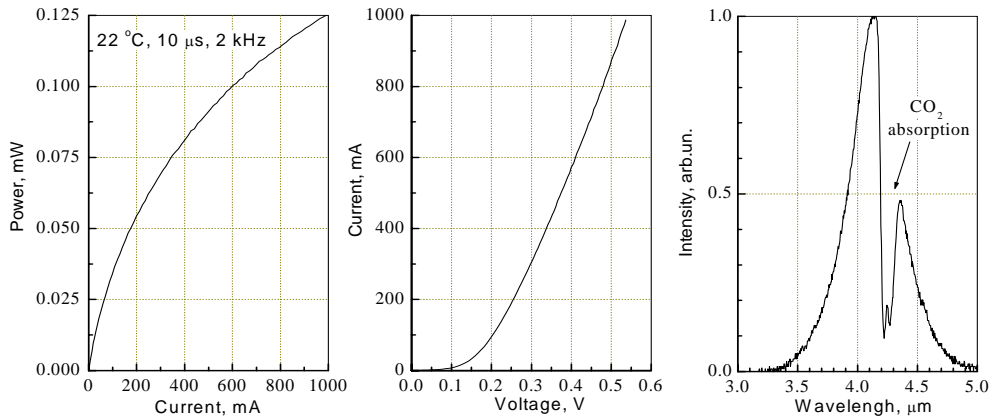
Package code	Thread	Emission size	Far-field pattern FWHM	Far-field pattern deviation	Operation (storage) conditions	Polarity
		mm	deg.	deg.	°C	
Screw	M5x0.5	Ø 3.2	≤40	±10	-25÷+60 (+80)	short wire or black point is negative

Package photo		<p style="text-align: center;">M5 thread on barrel</p>
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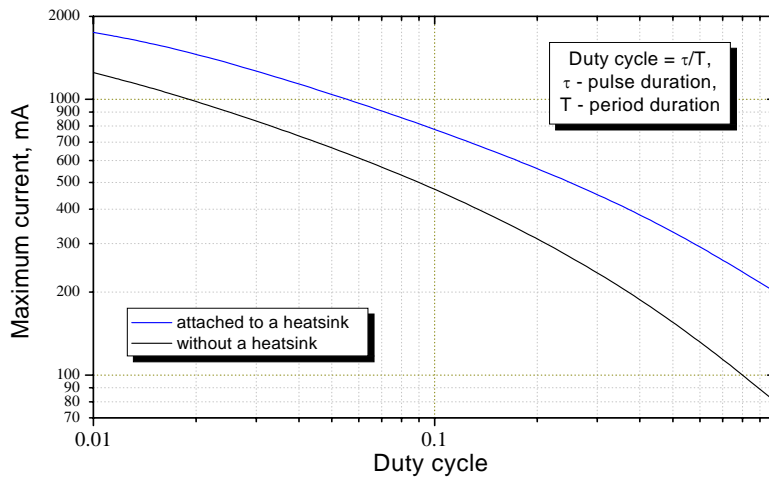
Available accessories include driver electronics and detectors.

Available wavelengths include 3.0, 3.4, 3.6, 4.2, 4.7 and 5.4 μm.

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



Maximal current vs. operation conditions



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

