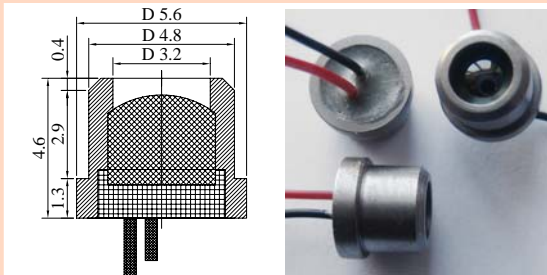


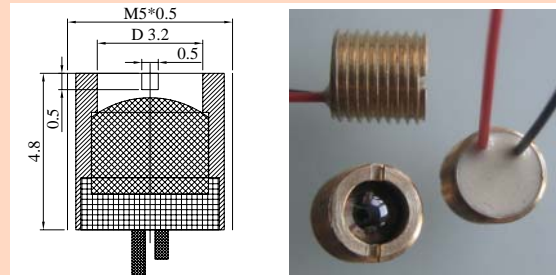
| | | | |
|---------------------------------|----|-------------------------------------|------|
| Peak wavelength λ_{max} | μm | 2.9÷3.0 | |
| Pulse power P_{pulsed} | mW | Drive current 1 A, 2 % duty cycle | 0.25 |
| Quasi-CW power P_{QCW} | mW | Drive current 0.4 A, 50% duty cycle | 0.09 |
| CW power P_{CW} | mW | Drive current 0.2 A | 0.06 |

| Code | Emission size, mm | Lens material | Far-field pattern FWHM, deg. | Optical axis deviation, deg. | Optical power deviation, % | Operation conditions, °C | Lifetime, hrs | Polarity |
|------------|-------------------|---------------|------------------------------|------------------------------|----------------------------|--------------------------|---------------|--|
| LED30Su/Sr | ∅ 3.2 | Si | ~15 | ≤5 | ±25 | -25÷+60 | >80 000 | Red wire – positive, Black wire – negative |

Product view



LED30Su



LED30Sr

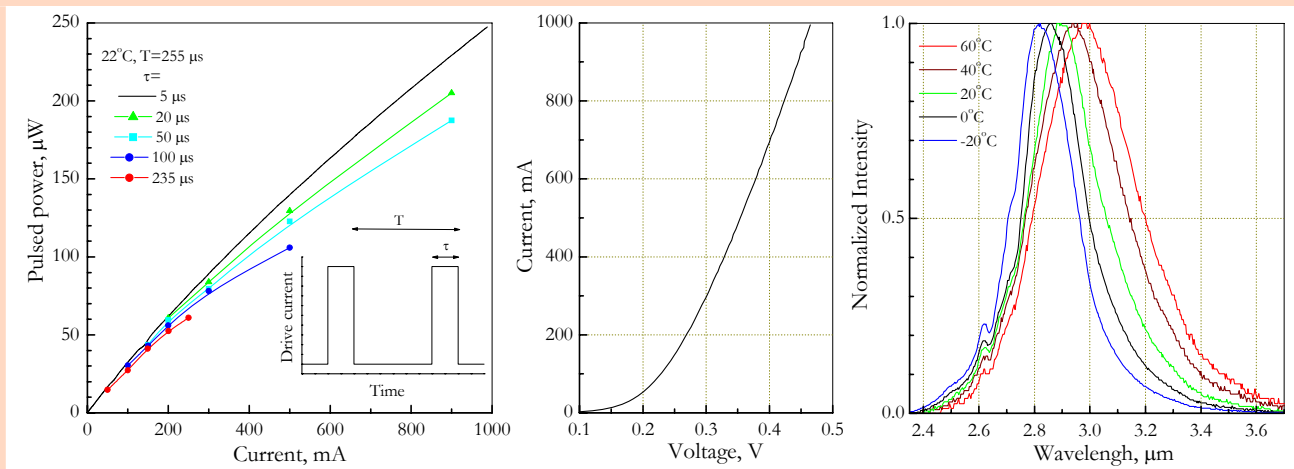
Features

Growth of narrow gap semiconductor alloys onto n⁺-InAs substrate; Flip-chip design of LEDs; Optical coupling through the use of chalcogenide glasses and Si lenses with antireflection coating

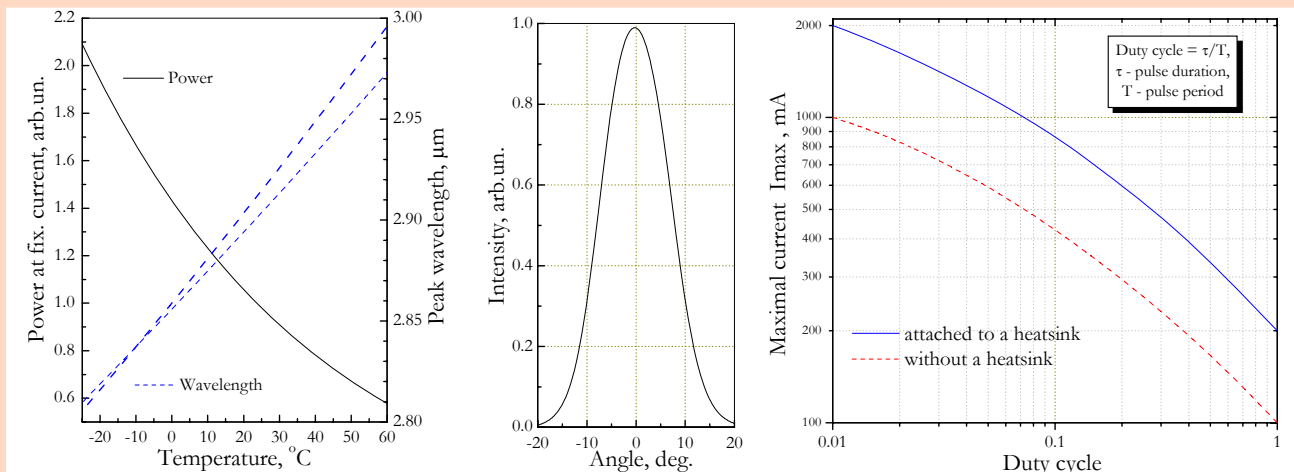
3-fold increased LED output power; Beam collimation within ~15 deg; Low serial resistance; Small on-off time (tenths of ns); Low power consumption (≤0.1 W)

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.

I-V and I-V characteristics and emission spectra



Output power and peak wavelength vs temperature, far-field pattern and maximal current vs operation conditions



Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 14.10.11

