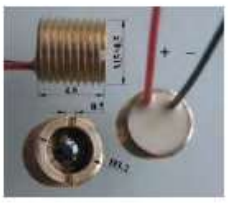
| Optically Immersed 5.5 μm LED in heat-sink optimized housing | | | LED55Sr |
|---|---|---|---|
| Peak wavelength | $\lambda_{max}$ | μm | 5.5÷5.7 |
| Pulsed power at I=1 A | $P_{pulsed}$ | μW | 10±2 |
| CW power at I=150 mA | $P_{CW}$ | μW | 2±0.5 |
| Switching time | τ | ns | ≤20 |

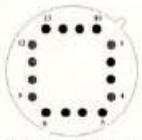
| Code | Thread | Emission size, mm | Lens material | Far-field pattern FWHM, deg | Optical axis deviation, deg | Operation (storage) conditions, °C |
|---|---|---|---|---|---|---|
| LED55Sr | M5×0.5 | Ø 3.3 | Si | ≤20 | ≤7 | -25÷+60 (+80) |
| LED55TO8TEC | | | Si lens and sapphire window | | | |

Product view

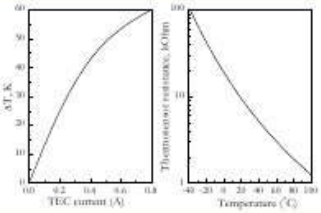
LED55Sr



LED55TO8TEC

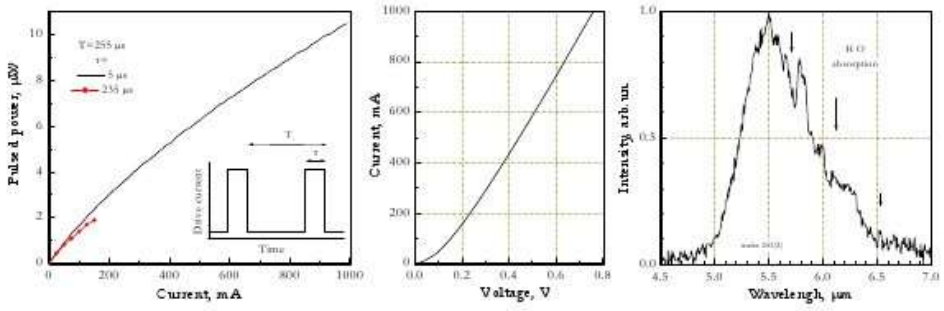


1 TEC −; 4 TEC +
8 LED +; 13 LED −
10, 11 thermosensor

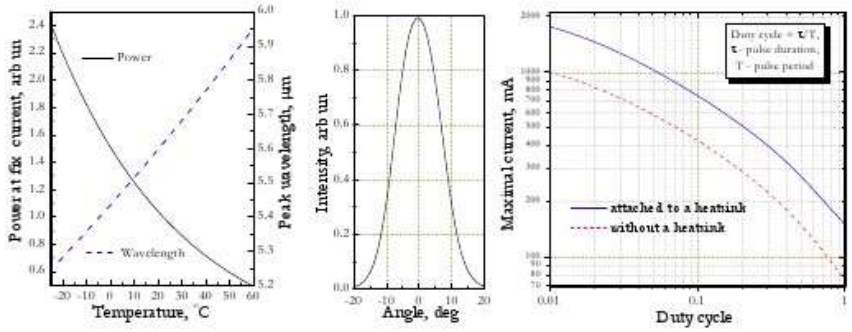



- ✓ All devices are stressed at 80°C (I=0) and I=150 mA (CW, 20°C) for 10 hrs before final test and shipping to a customer
- ✓ Beam divergence of the LEDs is small and thus we recommend adjusting LED position regarding to the detector system before final evaluation/use of the devices
- ✓ All data are valid for room temperature (22°C) and LED attached to a heatsink. Heatsink is important for normal LED operation especially in the CW mode
- ✓ Polarity: see Product view. In near future two color wires will be used.

Output power vs. current, current-voltage curve and emission spectra




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

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