Ioffe Light Emitting Diodes

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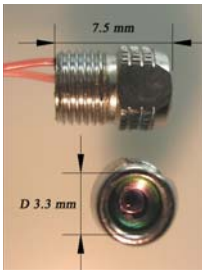
Optically Immersed 3.8 μm LED in heat-sink optimized housing			**LED38Sc**
Peak wavelength	λ_{max}	μm	3.85±0.05
Pulsed power at I=1 A	P_{pulsed}	μW	250±50
CW power at I=200 mA	P_{CW}	μW	100±20
Switching time	τ	ns	≤20

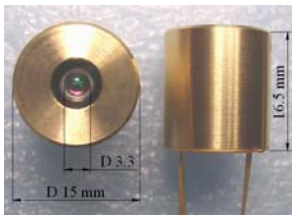
Code	Thread	Emission size, mm	Lens material	Far-field pattern FWHM, deg.	Optical axis deviation, deg	Operation (storage) conditions, ^{0}C
LED38Sc	M5×0.5	∅ 3.3	Si	≤20	≤7	-25÷+60 (+80)
LED38TO8TEC			Si lens and quartz window			

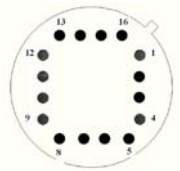
Product view

LED38Sc

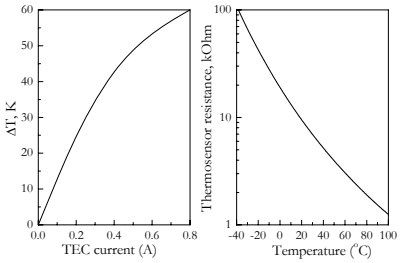


LED38TO8TEC



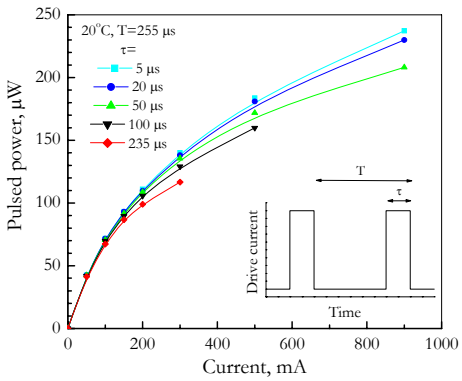


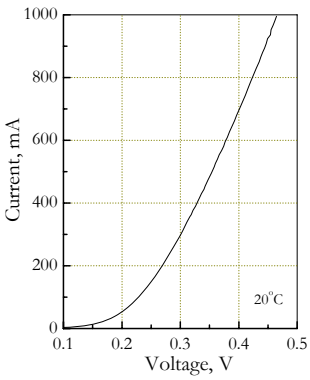
1 TEC −; 4 TEC +
8 LED +; 13 LED −
10, 11 thermosensor

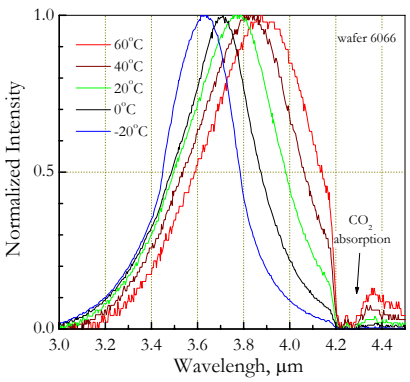


- ✓ All devices are stressed at 80°C (I=0) and I=200 mA (CW, 20°C) for 10 hrs before final test and shipping to a customer.
- ✓ Beam divergence of the LEDs is small and thus we recommend adjusting LED position regarding to the detector system before final evaluation/use of the devices.
- ✓ All data are 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: short wire is negative or white point on house is positive

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