

LIGHT EMITTING DIODES 1.6÷4.6 μm

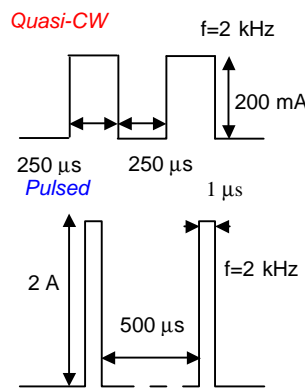
Model LED36-TEC-PR 3.6 mm 16 mW

- Light Emitting Diodes **LED36-TEC-PR** are designed for emitting at a spectral range around 3600 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates
- Light Emitting Diodes **LED36-TEC-PR** are developed for using in optical gas sensors and medical diagnostics. Such construction gives possibility for temperature stabilization of LED parameters. Lifetime is more then 10000 hours.
- Related products: Our standard **LED Driver** provides power supply of **LED36-TEC-PR** in two recommended here regimes (Quasi-CW and Pulsed).



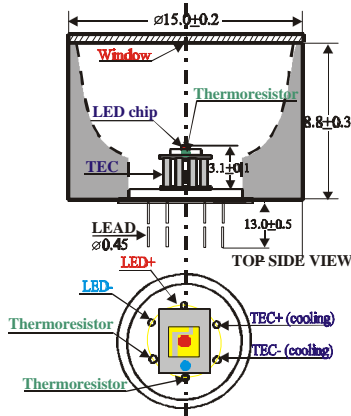
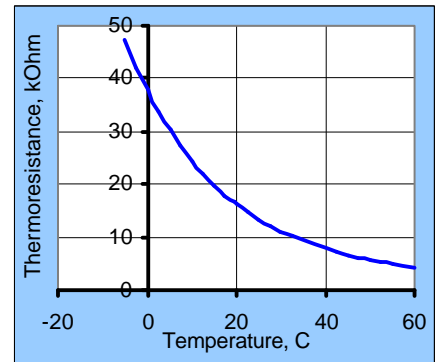
| Parameters | Min | Typ | Max |
|---------------------------------|--|------|------|
| Wavelength, μm | 3.50 | 3.60 | 3.70 |
| FWHM, μm | 0.60 | 0.70 | 0.80 |
| Optical Power, μW | | | |
| Quasi-CW @ 200 mA | 12 | 16 | 20 |
| Pulsed@2A | 180 | 200 | 220 |
| Switching Time, ns | 10 | 30 | 50 |
| Range of temperature control °C | -10÷+60 | | |
| Emitting Area, μm | 300x300 | | |
| Soldering temperature | 95 °C | | |
| Package | TO-5 with Thermocooler, Thermistor and Parabolic Reflector | | |

Recommended regimes of LED operation



Main thermocooler parameters (without load)

| I _{max} (Amps) | Q _{max} (Watts) | U _{max} (Volts) | ΔT _{max} °C |
|-------------------------|--------------------------|--------------------------|----------------------|
| 0.7 | 0.4 | 1.0 | 67 |



Package TO-5 with Parabolic Reflector

