LIGHT EMITTING DIODES 1.6÷4.6 μm

Model LED31-TEC-PR

3.1 mm 14 mW

•Light Emitting Diodes LED31-TEC-PR are designed for emitting at a spectral range around 3100 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates

•Light Emitting Diodes LED31-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: LED31 can be used in optical pair with our photodiodes PD36. Our standard LED Driver provides power supply of LED31-TEC-PR in

Typ

3.10

0.70

14

200

30

-10÷+60

300x300

95 °C

TO-5 with Thermocooler,

Thermistor and Parabolic Reflector

Max

3.20

0.80

16

220

50

two recommended here regimes (Quasi-CW and Pulsed).

Min

3.00

0.60

12

180

10

Parameters

Wavelength, µm

Optical Power, µW

Switching Time, ns

Quasi-CW @ 200 mA

Range of temperature

Emitting Area, µm

FWHM, µm

Pulsed@2A

control °C

Soldering

Package

temperature

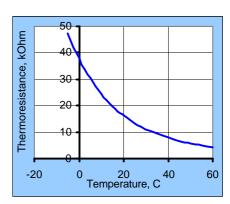


Recommended regimes	0
LED operation	

Quasi-CW f=2 kHz 200 mA 250 us 250 us Pulsed f=2 kHz 2 A 500 μs

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

