LIGHT EMITTING DIODES 1.6÷4.6 μm

Model LED34-TEC-PR

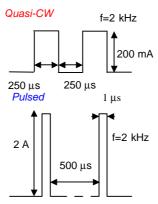
3.4 mm 24 mW

- •Light Emitting Diodes *LED34-TEC-PR* are designed for emitting at a spectral range around 3400 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates
- •Light Emitting Diodes *LED34-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 than 10000 hours.
- •Related products: *LED34* can be used in optical pair with our photodiodes *PD36*. Our standard *LED Driver* provides power supply of *LED34-TEC-PR* in two recommended here regimes (Quasi-CW and Pulsed).



Parameters	Min	Тур	Max
Wavelength, μm	3.30	3.40	3.50
FWHM, μm	0.60	0.70	0.80
Optical Power, μW			
Quasi-CW @ 200 mA	20	24	28
Pulsed@2A	320	400	480
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		

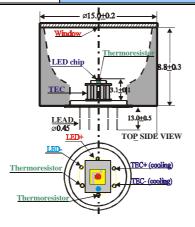
Recommended regimes of LED operation



Main thermocooler parameters (without load)

 Q_{max} U_{max} ΔT_{max}

	max	THUX	max	— · IIIax			
(Aı	mps)	(Watts)	(Volts)	°C			
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-2	Temperature, C						



Package TO-5 with Parabolic Reflector

