

LIGHT EMITTING DIODES 1.6÷4.6 μm

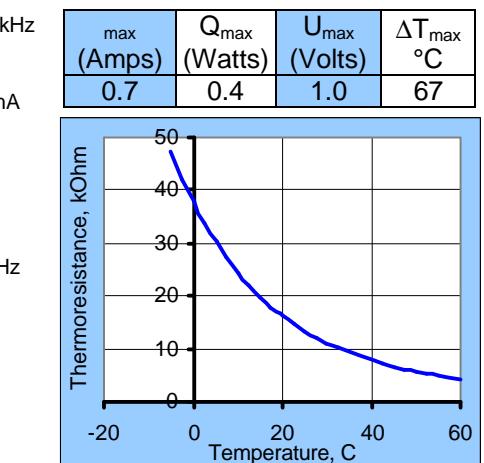
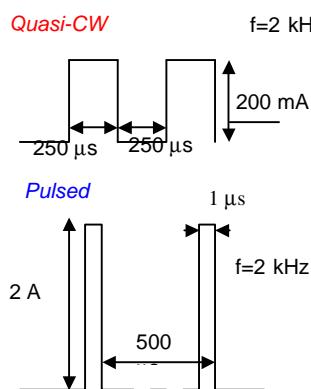
Model LED46-TEC-PR

4.6 μm 6 μW

- Light Emitting Diodes **LED46-TEC-PR** are designed for emitting at a spectral range around 4600 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates
- Light Emitting Diodes **LED46-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: Our standard **LED Driver** provides power supply of **LED46-TEC-PR** in two recommended here regimes (Quasi-CW and Pulsed).

Parameters	Min	Typ	Max
Wavelength, μm	4.40	4.50	4.60
FWHM, μm	1.00	1.10	1.20
Optical Power, μW	4	6	8
Quasi-CW @ 200 mA	100	120	140
Pulsed@2A			
Switching Time, ns	10	30	50
Range of temperature control $^{\circ}\text{C}$	-10÷+60		
Emitting Area, μm	300x300		
Soldering temperature	95 $^{\circ}\text{C}$		
Package	TO-5 with thermocooler, thermistor and Parabolic Reflector		

Recommended regimes of LED operation



Package TO-5 with Parabolic Reflector

