

# LIGHT EMITTING DIODES 1.6÷5.0 μm

## Model LED50 5.0 mm 1 mW

- Light Emitting Diodes **LED50** are designed for emitting at a spectral range around 5000 nm. Heterostructures (HS) are grown on InAs substrates. The output emission can be modulated by current flowing in a forward direction.
- Light Emitting Diodes **LED50** are developed for using in optical gas sensors and medical diagnostics. They have stable output power and lifetime more then 10000 hours.
- Related products: Our standard **LED Driver** provides power supply of **LED50** in two recommended here regimes (Quasi-CW and Pulsed).



Parameters	Min	Typ	Max
Wavelength, μm	4.75	4.90	5.05
FWHM, μm	1.20	1.35	1.50
Optical Power, μW			
Quasi-CW @ 200 mA	0,8	1.0	1.5
Pulsed@1A	100	120	140
Switching Time, ns	10	30	50
Operating Temperature Range, °C	-240÷+50		
Emitting Area, μm	300x300		
Soldering temperature	260 °C		
Package	TO-18		

### Recommended regimes of operation

