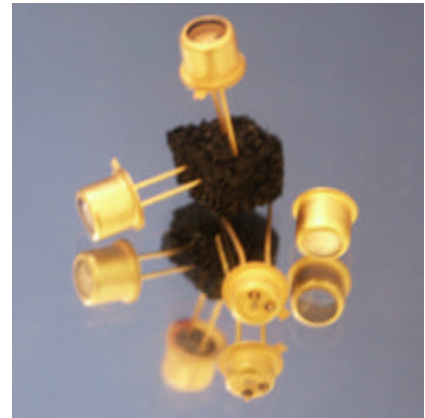


# LIGHT EMITTING DIODES 1.6÷4.6 $\mu\text{m}$

## Model LED16 1.65 mm 0.9 mW

- Light Emitting Diodes **LED16** are designed for emitting at a spectral range around 1650 nm. Heterostructures (HS) are grown on GaSb substrates. The output emission can be modulated by current flowing in a forward direction.
- Light Emitting Diodes **LED16** are developed for using in optical gas sensors and medical diagnostics. They have stable output power and lifetime more than 10000 hours. **LED16** specially is very convenient for detection of the Methane and other Hydrocarbons.
- Related products: **LED16** can be used in optical pair with our photodiodes **PD24**. Our standard **LED Driver** provides power supply of **LED16** in two recommended here regimes (Quasi-CW and Pulsed).



Parameters	Min	Typ	Max
Wavelength, $\mu\text{m}$	1.60	1.65	1.69
FWHM, $\mu\text{m}$	0.10	0.15	0.20
Optical Power, mW			
Quasi-CW @ 200 mA	0.7	0.9	1.1
Pulsed@1A	15	20	25
Switching Time, ns	10	30	50
Operating Temperature Range, $^{\circ}\text{C}$	-240÷+50		
Emitting Area, $\mu\text{m}$	300x300		
Soldering temperature	260 $^{\circ}\text{C}$		
Package	TO-18		

### Recommended regimes of operation

