



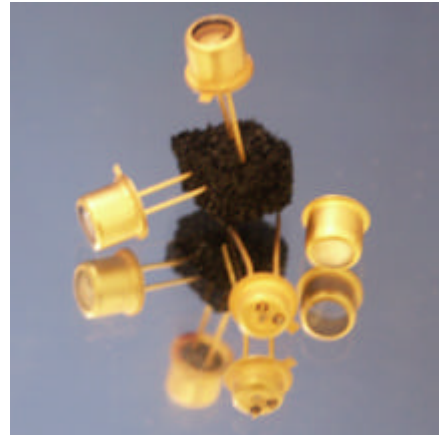
# LIGHT EMITTING DIODES 1.6÷4.6 μm

## Model LED29 2.9 μm 8 μW

•Light Emitting Diodes **LED29** are designed for emitting at a spectral range around 2900 nm. Heterostructures (HS) are grown on InAs substrates. The output emission can be modulated by current flowing in a forward direction.

•Light Emitting Diodes **LED29** are developed for using in optical gas sensors and medical diagnostics. They have stable output power and lifetime more then 10000 hours.

•Related products: **LED29** can be used in optical pair with our photodiodes **PD36**. Our standard **LED Driver** provides power supply of **LED29** in two recommended here regimes (Quasi-CW and Pulsed).



Parameters	Min	Typ	Max
Wavelength, μm	2.80	2.90	3.00
FWHM, μm	0.60	0.70	0.80
Optical Power, μW			
Quasi-CW @ 200 mA	6	8	10
Pulsed@1A	120	150	170
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

