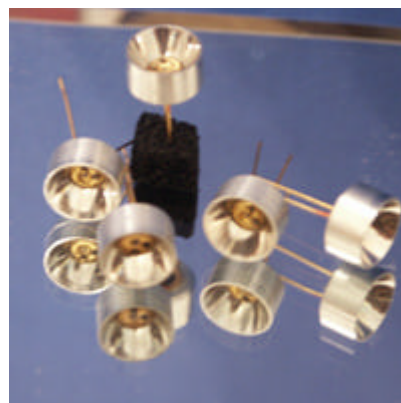


# LIGHT EMITTING DIODES 1.6÷4.6 $\mu\text{m}$

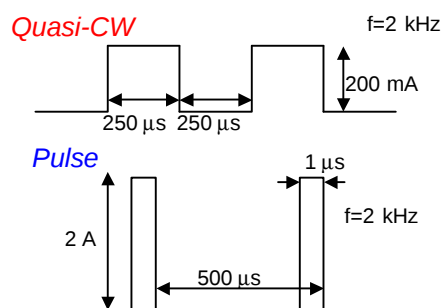
## Model LED43-PR 4.3 mm 10 mW

- Light Emitting Diodes **LED43-PR** are designed for emitting at a spectral range around 4300 nm. Heterostructures (HS) are grown on InAs substrates. The output emission can be modulated by current flowing in a forward direction.
- Light Emitting Diodes **LED43-PR** 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 **LED43-PR** in two recommended here regimes (Quasi-CW and Pulsed).



| Parameters                                      | Min                            | Typ  | Max  |
|-------------------------------------------------|--------------------------------|------|------|
| Wavelength, $\mu\text{m}$                       | 4.10                           | 4.20 | 4.30 |
| FWHM, $\mu\text{m}$                             | 0.75                           | 0.90 | 1.05 |
| Optical Power, $\mu\text{W}$                    |                                |      |      |
| Quasi-CW @ 200 mA                               | 8                              | 10   | 12   |
| Pulsed@1A                                       | 180                            | 200  | 220  |
| 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 with Parabolic Reflector |      |      |

Recommended regimes of operation



Package TO-18 with Reflector

