

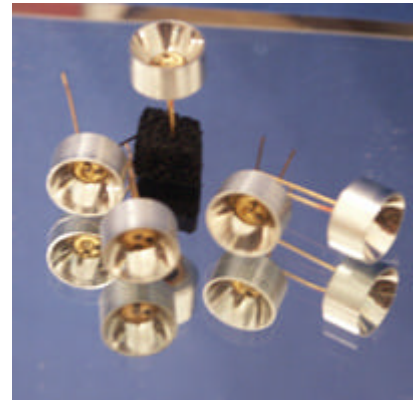
# LIGHT EMITTING DIODES 1.6÷4.6 $\mu\text{m}$

## Model LED17-PR 1.75 mm 0.9 mW

•Light Emitting Diodes **LED17-PR** are designed for emitting at a spectral range around 1750 nm. Heterostructures (HS) are grown on GaSb substrates. The output emission can be modulated by current flowing in a forward direction.

•Light Emitting Diodes **LED17-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: **LED17-PR** can be used in optical pair with our photodiodes **PD24**. Our standard **LED Driver** provides power supply of **LED17-PR** in two recommended here regimes (Quasi-CW and Pulsed).



| Parameters                                      | Min                            | Typ  | Max  |
|---|--------------------------------|------|------|
| Wavelength, $\mu\text{m}$                       | 1.70                           | 1.75 | 1.79 |
| FWHM, $\mu\text{m}$                             | 0.10                           | 0.15 | 0.20 |
| Optical Power, mW                               |                                |      |      |
| Quasi-CW @ 200 mA                               | 0.7                            | 0.9  | 1.1  |
| Pulsed@2A                                       | 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 with Parabolic Reflector |      |      |

### Recommended regimes of operation

