

LED19FC-PR



TECHNICAL DATA

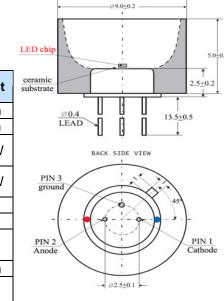
Mid-Infrared Light Emitting Diode, Flip-Chip Design

Light Emitting Diodes with central wavelength 1.95 µm series are based on heterostructures grown on GaSb substrates by LPE. Solid solutions AlGaAsSb are used in the active layer. Wide band gap solid solutions AlGaAsSb with Al content 64% are used for good electron confinement. LED19FC-PR has a stable ouput power and a lifetime more then 80000 hours.

Features

- Structure: GalnAsSb/AlGaAsSb, Flip-Chip Design
- Peak Wavelength: typ. 1.95 µm
- Optical Ouput Power: typ. 1.0 mW qCW
- Package: TO-18, with PR and without window





(Unit: mm)

Specifications

| Item | Condition | Min. | Rating Typ. | Max. | Unit |
|---------------------------|---|------|----------------|------|------|
| Peak Wavelength | T=300 K | 1.90 | 1.95 | 1.99 | μm |
| FWHM | 150 mA CW | 100 | 150 | 200 | nm |
| Quasi-CW Optical Power | 200 mA qCW | 0.8 | 1.0 | 1.4 | mW |
| Pulsed Optical Power | 1 A | 20 | 25 | 35 | mW |
| Switching Time | T=300 K | 10 | 20 | 30 | ns |
| Operation Voltage | 200 mA qCW | | | | V |
| Operating Temperature | -240 +50 | | | | °C |
| Emitting Area | 670x770 | | | | μm |
| Soldering Temperature | 180 | | | | °C |
| Package | TO-18, with parabolic reflector and without window | | | | |

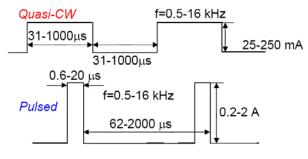
Quasi-CW

Maximum current 220 mA
Recommended current 150-200mA

Pulsed

 Maximum current 1 A (puls lenght 500 ns, repetition rate 2kHz)

Operating Regime





Typical Performance Curves

