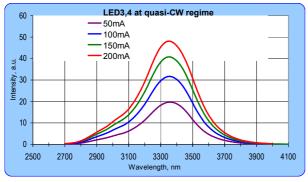


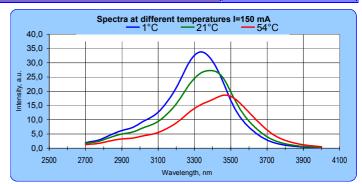


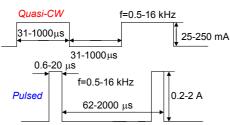
Light Emitting Diodes with central wavelength 3,40  $\mu m$  series are based on heterostructures grown on InAs substrates by MOCVD. InAs is used in the active layer. Wide band gap solid solutions InAsSbP with P content 50% are used for good electron confinement.

|              | s Conditions         | Ratings   |  |   |  |
|--------------|----------------------|---|--|---|--|
| Units        |                      | Min   | Тур  | Max   |  |
| μm           | T=300 K              | 3,32  | 3,40   | 3,46  |  |
| nm           | 150 mA CW            | 400   | 500  | 600   |  |
| μW           | 200 mA qCW           | 25  | 35   | 45  |  |
| μW           | 1 A                  | 320   | 400  | 480   |  |
| ns           | T=300 K              | 10  | 20   | 30  |  |
| -240° ÷ +50° |                      |   |  |   |  |
| 300x300      |                      |   |  |   |  |
| 260 °C       |                      |   |  |   |  |
| Package      |                      |   |  |   |  |
|              | nm<br>μW<br>μW<br>ns | μm T=300 K nm 150 mA CW μW 200 mA qCW μW 1 A ns T=300 K  -240 | Min   μm   T=300 K   3,32   nm   150 mA CW   400   μW   200 mA qCW   25   μW   1 A   320   ns   T=300 K   10   -240° ÷ +50°   300x300   260 °C | μm         T=300 K         3,32         3,40           nm         150 mA CW         400         500           μW         200 mA qCW         25         35           μW         1 A         320         400           ns         T=300 K         10         20           -240° ÷ +50°           300x300           260 °C |  |

| Раскаде  |                   |  |  |  |
|--|-------------------|--|--|--|
| TO-18 with a non-removable cap without a window  | MID IR LED        |  |  |  |
| TO-18 with a parabolic reflector without a window  | MID IR LED-PR     |  |  |  |
| TO-18 with a parabolic reflector with a window   | MID IR LED-PRwin  |  |  |  |
| TO-5 with a built-in thermocooler and thermoresistor, covered by a cap with a window                 | MID IR LED-TEC    |  |  |  |
| TO-5 with a built-in thermocooler and thermoresistor, covered by a parabolic reflector with a window | MID IR LED-TEC-PR |  |  |  |



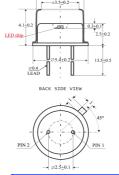


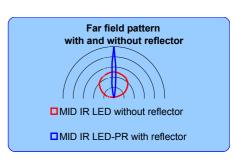


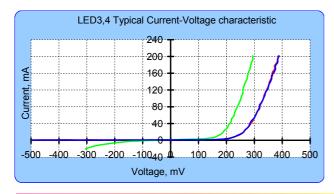
Maximum current is 220 mA at quasi-CW

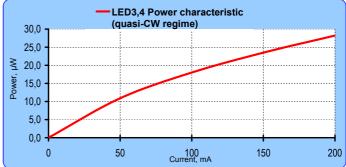
Maximum pulsed current is 1 A (duration 500 ns, repetition rate 2 kHz)

Optimal operating current is 150-200 mA at quasi-CW.









## **RELATED PRODUCTS**

PD36 series Photodiodes can be used for detecting LED emission

LED driver D-31M can be used for LED power supply in quasi-CW and pulse modes

LED driver mD-1c can be used for LED power supply in a quasi-CW mode

LED driver mD-1p can be used for LED power supply in a pulse mode