

ROITHNER LASERTECHNIK GIRDH

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LED20FC

TECHNICAL DATA



Mid-Infrared Light Emitting Diode, Flip-Chip Design

Light Emitting Diodes with central wavelength 2.02 μ m 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. LED20FC has a stable ouput power and a lifetime more then 80000 hours.

Features

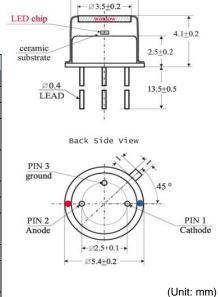
- Structure: GalnAsSb/AlGaAsSb, Flip-Chip Design
- Peak Wavelength: typ. 2.02 μm
- Optical Ouput Power: typ. 1.2 mW qCW
- · Package: TO-18, with cap and window



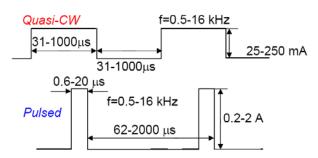
Ø4.8±0.2

Specifications

ltem	Condition	Rating			Unit
item		Min.	Тур.	Max.	Uill
Peak Wavelength	T=300 K	2.00	2.02	2.09	μm
FWHM	150 mA CW	100	150	250	nm
Quasi-CW Optical Power	200 mA qCW	0.8	1.2	1.8	mW
Pulsed Optical Power	1 A	20	30	40	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				ပ္
Package	TO-18, with non-removeable cap and transparent window				k



Operating Regime



Quasi-CW

- Maximum current 220 mA
- Recommended current 150-200mA

Pulsed

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



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Typical Performance Curves

