

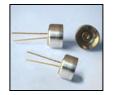
ROITHNER LASERTECHNIK GIRDH

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LED18FC-PR

TECHNICAL DATA



Mid-Infrared Light Emitting Diode, Flip-Chip Design

Light Emitting Diodes with central wavelength 1.85 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. LED18FC-PR has a stable outure power and a lifetime more then 80000 hours.

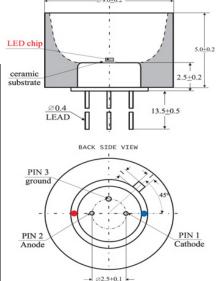
Features

- Structure: GalnAsSb/AlGaAsSb, Flip-Chip Design
- Peak Wavelength: typ. 1.85 μm
- Optical Ouput Power: typ. 0.9 mW gCW
- Package: TO-18, with PR and without window



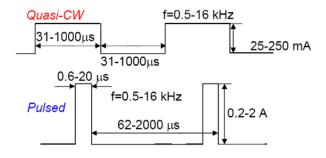
Specifications

Item	Condition	Rating			Unit
		Min.	Тур.	Max.	Uill
Peak Wavelength	T=300 K	1.80	1.85	1.89	μm
FWHM	150 mA CW	100	150	200	nm
Quasi-CW Optical Power	200 mA qCW	0.7	0.9	1.4	mW
Pulsed Optical Power	1 A	15	20	35	mW
Switching Time	T=300 K	10	20	30	ns
Operation Voltage	200 mA qCW				V
Operating Temperature	-240 + 50				ပ္
Emitting Area	670x770				μm
Soldering Temperature	180				°C
Package	TO-18, with non-removeable cap and transparent window				k



(Unit: mm)

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

