

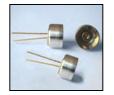
## ROITHNER LASERTECHNIK GIRDH

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# **LED36-PR-WIN**

### **TECHNICAL DATA**



### **Mid-Infrared Light Emitting Diode**

Light Emitting Diodes with central wavelength 3.65  $\mu$ m series are based on heterostructures grown on InAs substrates by MOCVD. InAsSb is used in the active layer. Wide band gap solid solutions InAsSbP with P content 50% are used for good electron confinement.

LED36-SMD3 has a stable ouput power and a lifetime more then 80000 hours.

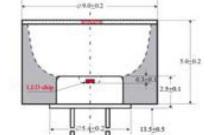
#### Features

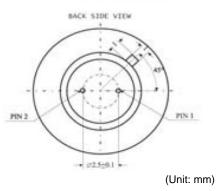
Structure: InAsSb/InAsSbP

Peak Wavelength: typ. 3.65 μm

Optical Ouput Power: typ. 30 µW qCW
Package: TO-18, with PR and window



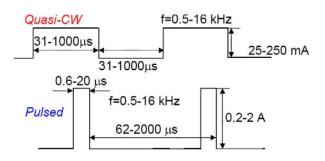




### **Specifications**

ltem	Condition	Rating			Unit
itelli		Min.	Тур.	Max.	Oilit
Peak Wavelength	T=300 K	3.60	3.65	3.70	μm
FWHM	150 mA CW	0.40	0.50	0.60	μm
Quasi-CW Optical Power	200 mA qCW	20	30	40	μW
Pulsed Optical Power	1 A	180	200	220	mW
Switching Time	T=300 K	10	20	30	ns
Operation Voltage	200 mA qCW	0.2	-	1.0	V
Operating Temperature	-240 +50				°C
Emitting Area	300x300				μm
Soldering Temperature	180				ç
Package	TO-18, with parabol reflector and windo				w

#### **Operating Regime**



#### Quasi-CW

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

#### **Pulsed**

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

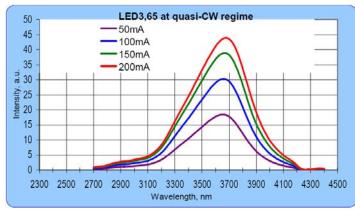


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### **Typical Performance Curves**



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