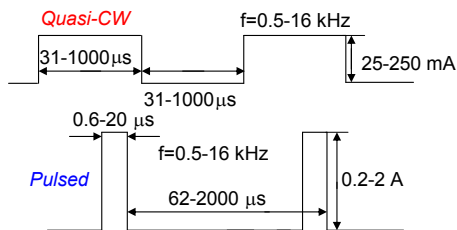
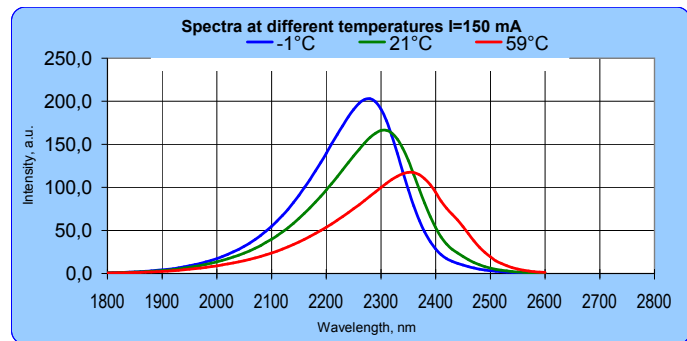
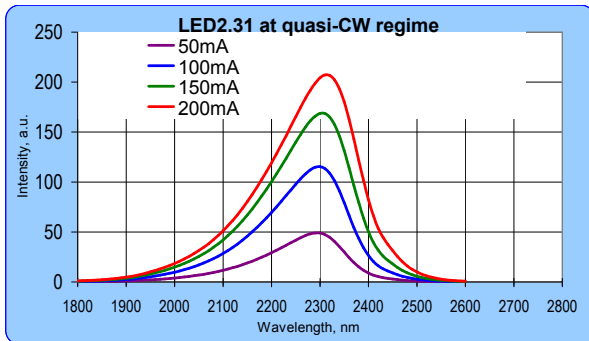


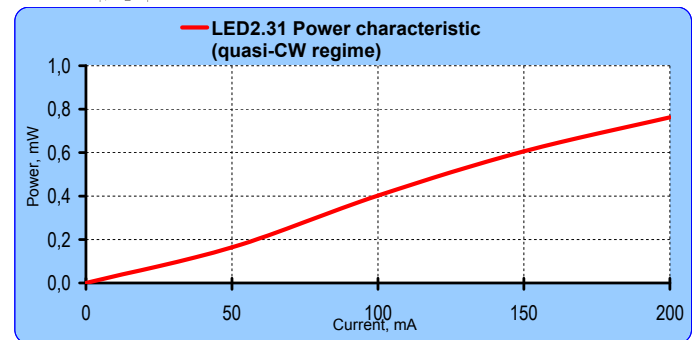
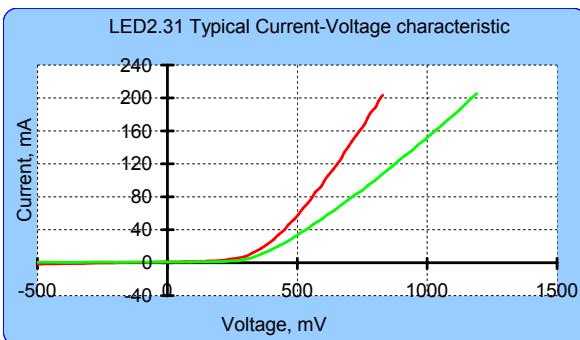
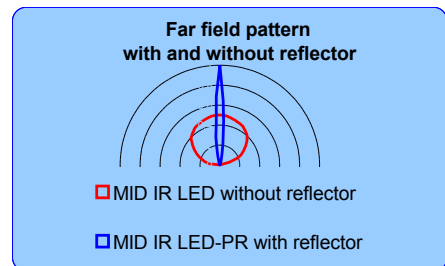
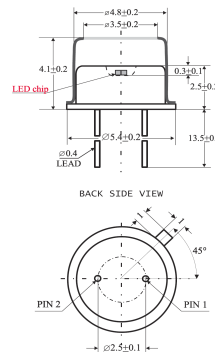


Light Emitting Diodes with central wavelength 2,31  $\mu\text{m}$  series are based on heterostructures grown on GaSb substrates by LPE. Solid solutions GaInAsSb are used in the active layer. Wide band gap solid solutions AlGaAsSb with Al content 64% are used for good electron confinement.

Parameters	Units	Conditions	Ratings		
			Min	Typ	Max
Peak emission wavelength	$\mu\text{m}$	T=300 K	2,30	2,31	2,33
FWHM of the emission band	nm	150 mA CW	170	220	270
Quasi-CW Optical Power	mW	200 mA qCW	0,6	0,8	1
Pulsed Optical Power	mW	1 A	12	15	20
Switching Time	ns	T=300 K	10	20	30
Operating Temperature Range, $^{\circ}\text{C}$	-240 $^{\circ}$ $\pm$ +50 $^{\circ}$				
Emitting Area, $\mu\text{m}$	300x300				
Soldering temperature	260 $^{\circ}\text{C}$				
Package					
TO-18 with a non-removable cap without a window				<b>MID IR LED</b>	
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

- PD24 series Photodiodes** can be used for detecting LED emission
- PD25 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