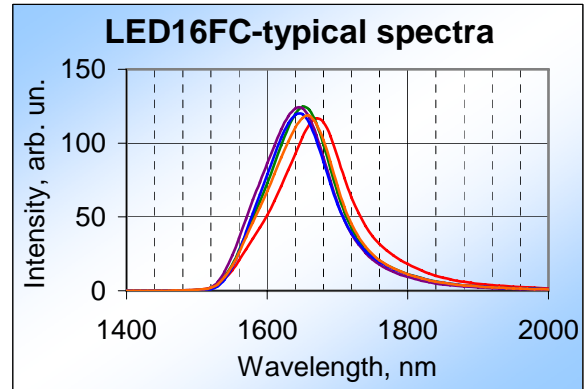


# LED16FC Series

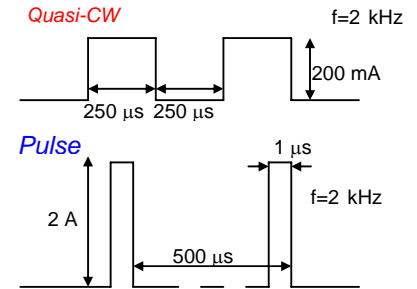
- Light Emitting Diodes **LED16FC** are designed for emitting at a spectral range around 1650 nm. Heterostructures (HS) are grown on GaSb substrates. The output emission can be modulated by current flowing in a forward direction.

- Light Emitting Diodes **LED16FC** are developed for using in optical gas sensors and medical diagnostics. They have stable output power and lifetime more than 10000 hours.

- Related products: Our standard **LED Driver D-31** provides power supply of **LED16FC** in two modes of operation: Quasi-CW and Pulsed.



Parameters	Min	Typ	Max
Wavelength, $\mu\text{m}$	1.60	1.65	1.69
FWHM, $\mu\text{m}$	0.10	0.15	0.25
Optical Power, mW			
Quasi-CW @ 200 mA	0.7	0.9	1.1
Pulsed@1A	15	20	25
Switching Time, ns	10	30	50
Operating Temp., $^{\circ}\text{C}$	-240:+50		
Emitting Area, $\mu\text{m}$	500x500		
Soldering temperature	260 $^{\circ}\text{C}$		
Package LED16FC	3-pins TO-18 and non-removable cap with/without a window		
Package LED16FC-PR	3-pins TO-18 and Parabolic Reflector with/without window		
Package LED16FC-TEC	6-pins TO-5, built-in a thermocooler and non-removable cap with a window		
Package LED16FC-TEC-PR	6-pins TO-5, built-in a thermocooler and non-removable Parabolic Reflector with a window		

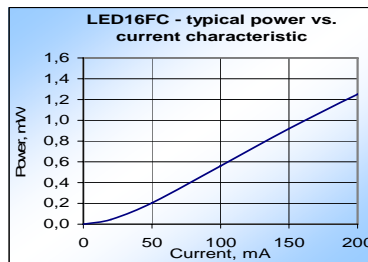
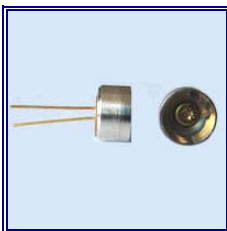


Recommended regimes of operation

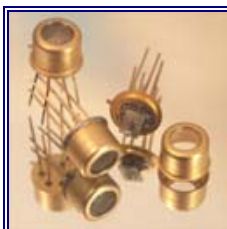
## LED16FC



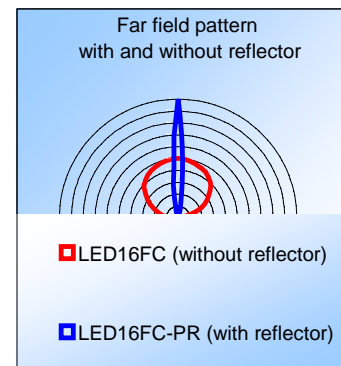
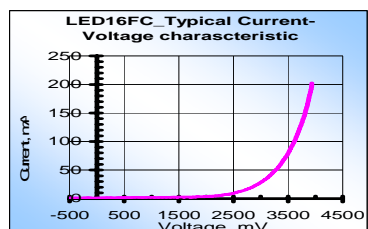
## LED16FC-PR



## LED16FC-TEC



## LED16-TEC-PR



LED16FC (without reflector)

LED16FC-PR (with reflector)