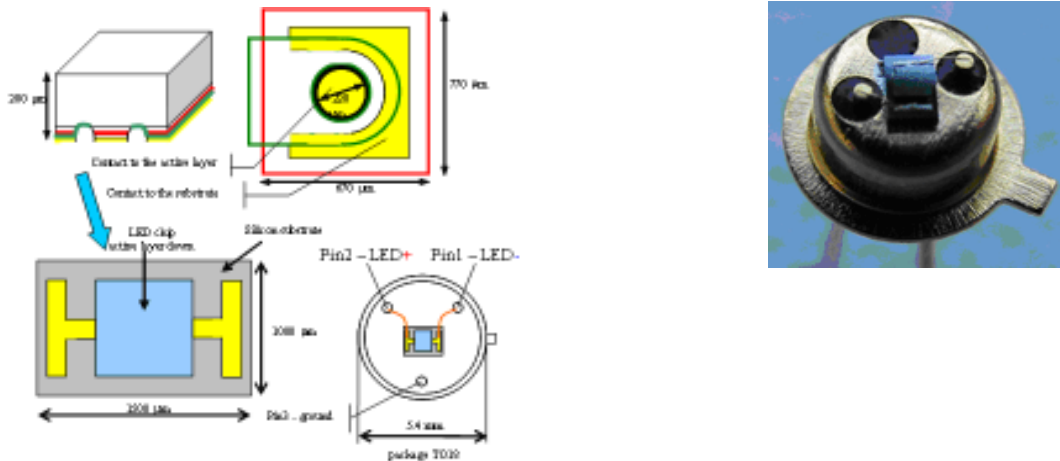


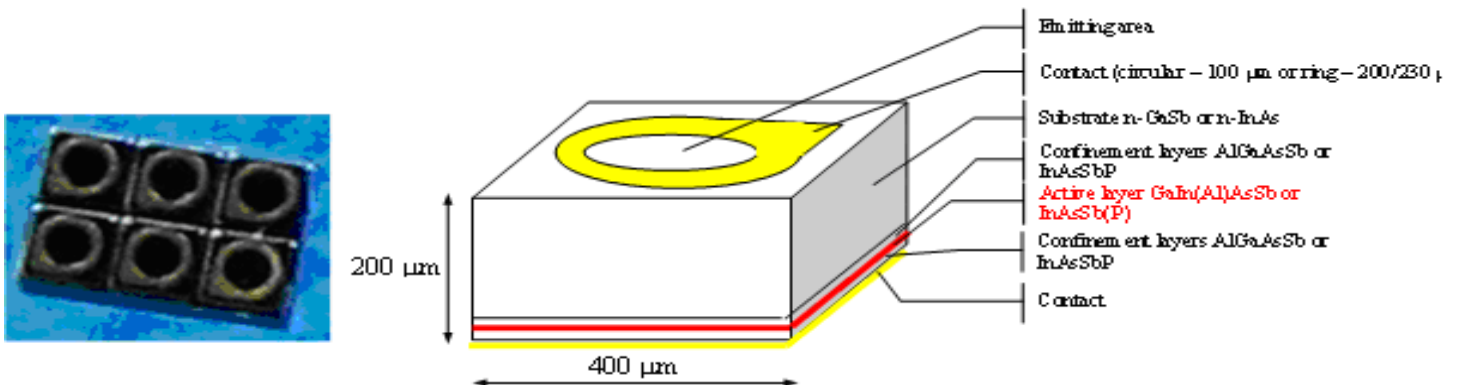


## Mid Infrared LED Flip-chip

LEDXXFC models offer the Mid IR LED Flip-chip design. The main advantage of this design is the free top surface. The larger area gives higher total optical power. Cost of LEDs with flip-chips design is higher due to larger size.



## Standard Mid Infrared LED chip



This shape of the LED chip is typical for most of IBSG standard Mid IR LEDs models.

Main advantages are:

Small size of the LED chip (close to point source)

High heat loading from the active layer

Homogeneous current flow

Cost effective (due to small size)

As a result we have very good quantum efficiency in a wide current range.



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