

**PRELIMINARY**  
**SPECIFICATION**  
**PSC-650-1**

point source chip, 650nm (typ.), 1,3mW  
Rev. 0.1 (preliminary, Feb. 2019)

## Description:

AlGaInP Chip, P-side up

## Electro-Optical Characteristics (T<sub>A</sub>=25°C):

Condition		Min.	Typ.	Max.	Unit
Forward Voltage (V <sub>F</sub> )	I <sub>F</sub> =20mA		2,0		V
Reverse Current (I <sub>R</sub> )	V <sub>R</sub> =5V			10	μA
Radiated Power (P <sub>O</sub> )	I <sub>F</sub> =20mA		1,3		mW
Peak Wavelength (λ <sub>p</sub> )	I <sub>F</sub> =20mA		650		nm

Recommended use is mounting on TO-18 gold header without resin coated

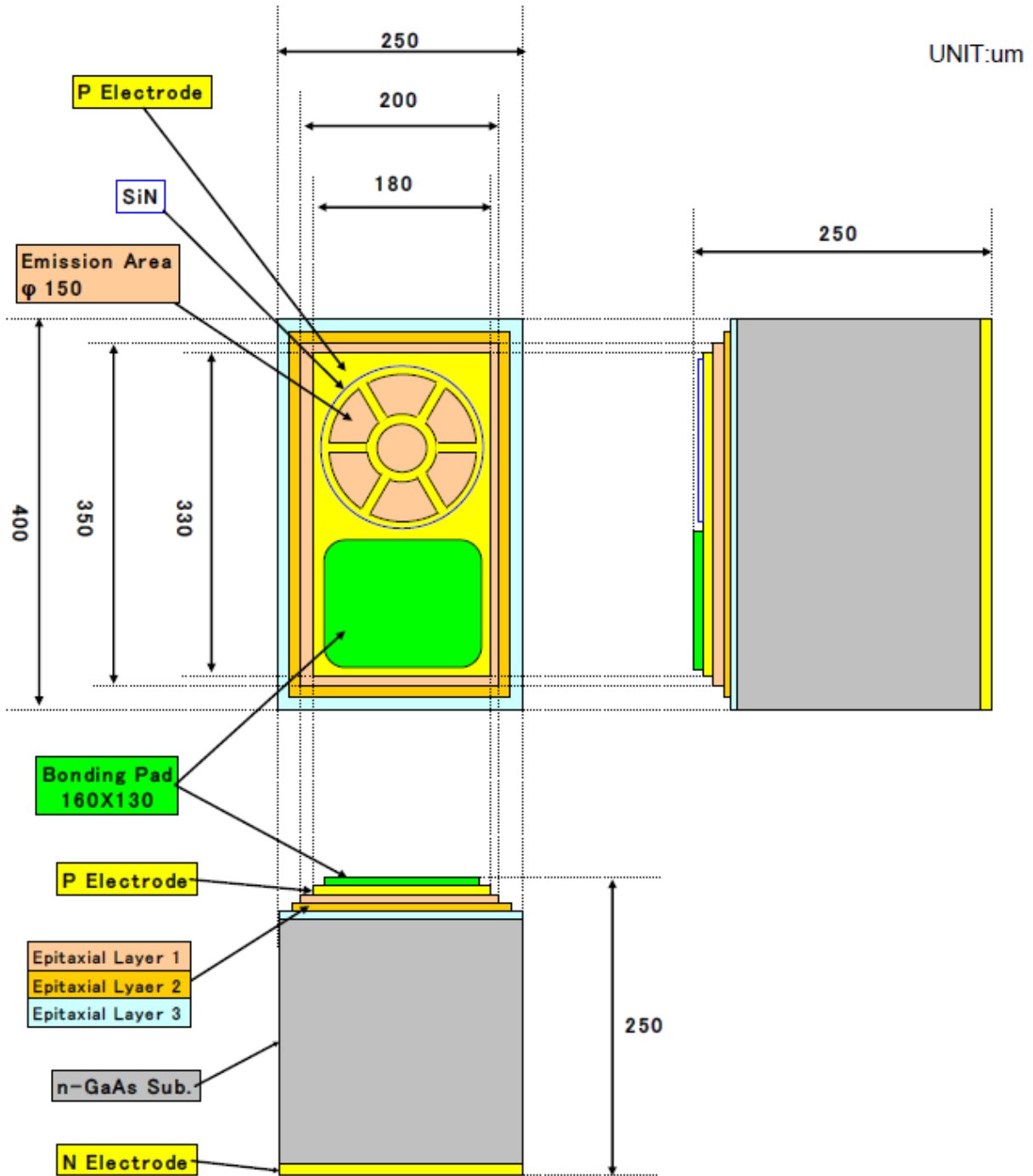
## Absolute maximum ratings:

Continuous Maximum Forward Current :	50 mA
Reverse Voltage :	5 V(I <sub>R</sub> =10μA)
Storage Temperature	
- while on mylar membrane :	0 to 40 °C
- after removal from mylar membrane:	-30 to 100 °C

## Physical Characteristics and Structure:

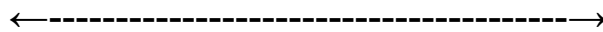
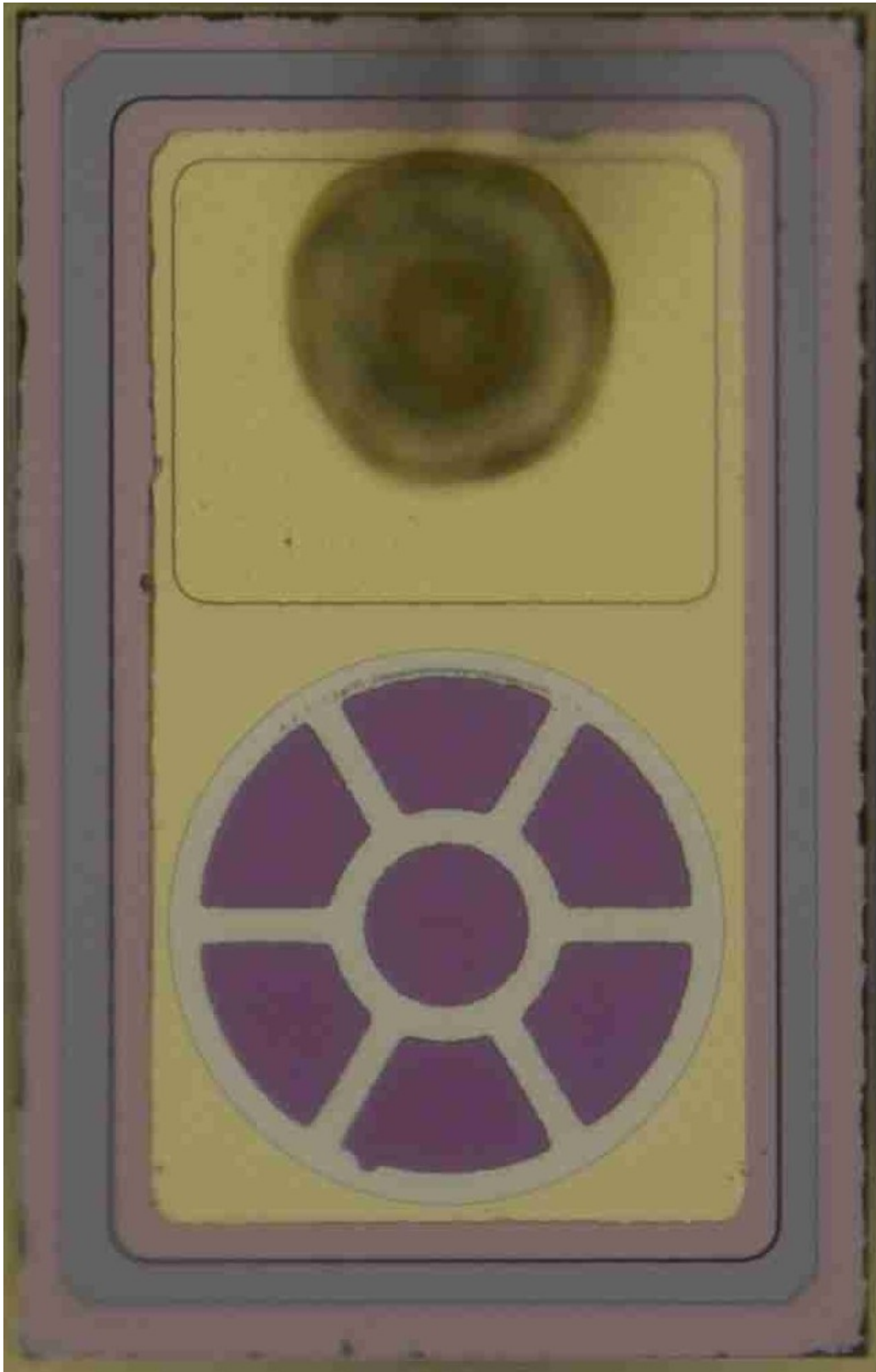
1) Material:	AlGaInP
2) Structure :	Resonant Cavity Structure
3) Die size :	0.250mm×0.400mm
4) Thickness :	0.250mm
5) Emission area :	0.150mm diameter
6) Anode Metallization :	Gold Alloy
7) Cathode Metallization :	Gold Alloy

# Physical Dimensions:



Remark: This specification is for reference purpose only, and subject to change without prior notice.  
 Approved specification shall be obtained for the regular purchase.

High Resolution Picture of the Chip:



Emission Area: 150 $\mu$ m

## Precautions:



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