

## THE SPECIFICATION OF AlGaAs IR LED CHIP "IR6RA"

### 1. DESCRIPTION

This is a AlGaAs infrared LED chip. It is N-side up. The peak wavelength is 870 nm (Typ.).

### 2. ELECTRO - OPTICAL CHARACTERISTICS (Ta=25deg. C)

CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage ( Vf ) IF=50mA		1.40	1.65	V
Reverse Voltage ( Vr ) IR=100uA	11			V
Radiated Power <sup>1)</sup> ( Po ) IF=50mA	7.0			mW
Peak Wavelength ( λp ) IF=50mA	850	870	900	nm
Spectral Radiation Bandwidth ( Δλ ) IF=50mA		45		nm
Rise Time ( Tr ) IFp=500mA Tw=125ns,Duty=25%		20		ns
Fall Time ( Tf ) IFp=500mA Tw=125ns,Duty=25%		23		ns
PeakForward Voltage ( VfM ) IFp=400mA Tw=100us,Duty=10%		1.90		V

1) LED chip is mounted on TO-18 gold header without resin coated.

### 3. ABSOLUTE MAXIMUM RATINGS

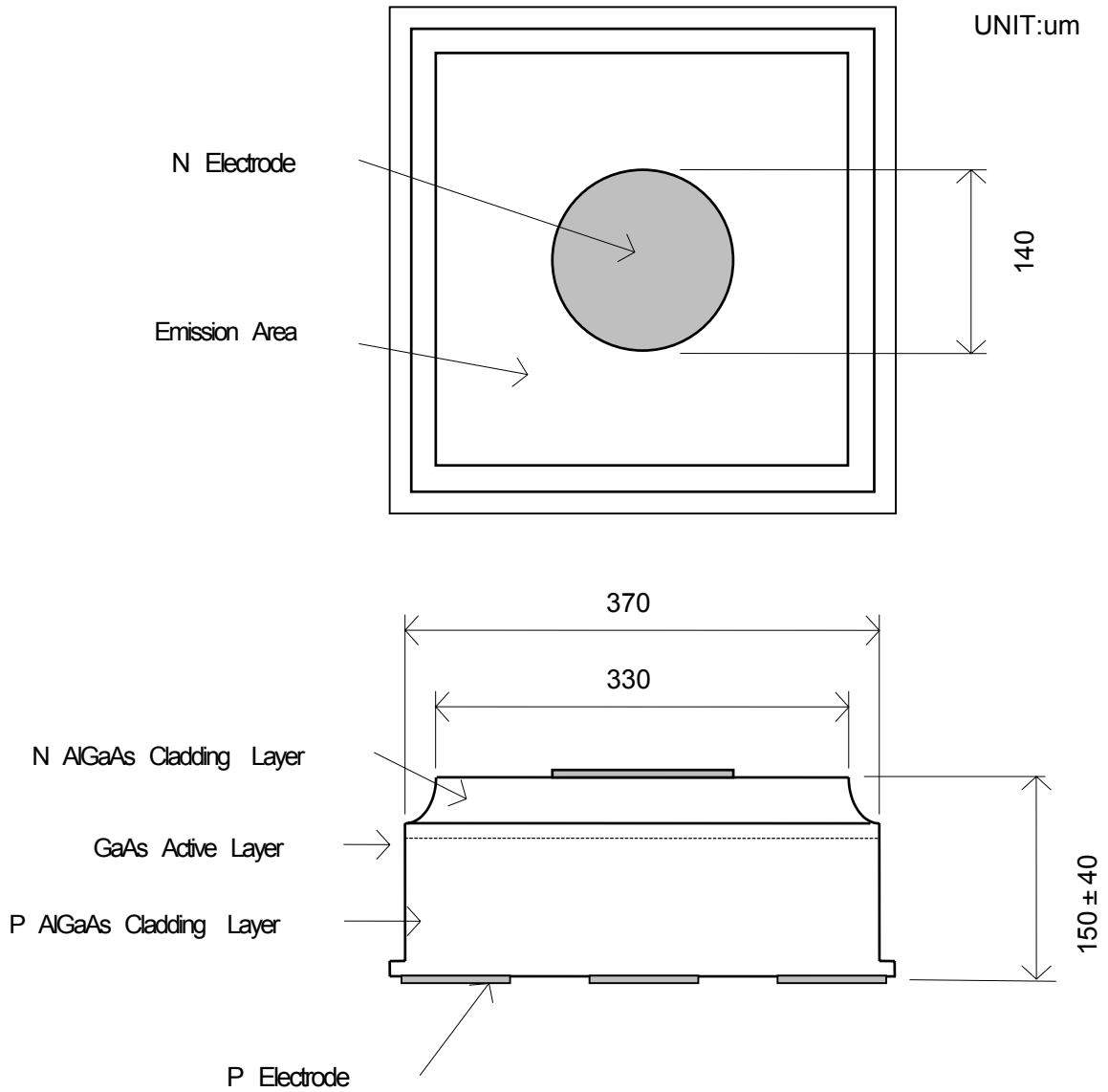
Continuous Maximum Forward Current	: 100 mA(DC)
Reverse Voltage	: 5 V(IR=10uA)
Storage Temperature	
while on mylar membrane	: 0 to 40 deg. C
after removal from mylar membrane	: -40 to 100 deg. C

### 4. PHYSICAL CHARACTERISTICS AND STRUCTURE

- 1)Material : AlGaAs
- 2)Structure : Double Hetero Structure
- 3)Junction Size : 0.370mm × 0.370mm
- 4)Thickness : 0.150mm ± 0.040mm
- 5)Bond Pad Size : 0.140mm diameter
- 6)Anode Metallization : Gold Alloy
- 7)Cathode Metallization: Gold Alloy

Physical Dimensions

Model IR6RA



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