

## THE SPECIFICATION OF AlGaAs IR LED CHIP "IR6RC "

### 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 ( $V_F$ ) IF=20mA		1.35		V
Reverse Voltage ( $V_R$ ) IR=10uA	5			V
Radiated Power <sup>1)</sup> ( $P_o$ ) IF=20mA	3.8			mW
Peak Wavelength ( $\lambda_p$ ) IF=20mA		870		nm
Spectral Radiation Bandwidth ( $\Delta\lambda$ ) IF=20mA		45		nm
Rise Time ( $T_r$ ) IFp=500mA Tw=125ns,Duty=25%		20	35	ns
Fall Time ( $T_f$ ) IFp=500mA Tw=125ns,Duty=25%		20	35	ns
PeakForward Voltage ( $V_{fm}$ )IFp=400mA Tw=100us,Duty=10%		2.2		V

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

### 3. ABSOLUTE MAXIMUM RATINGS

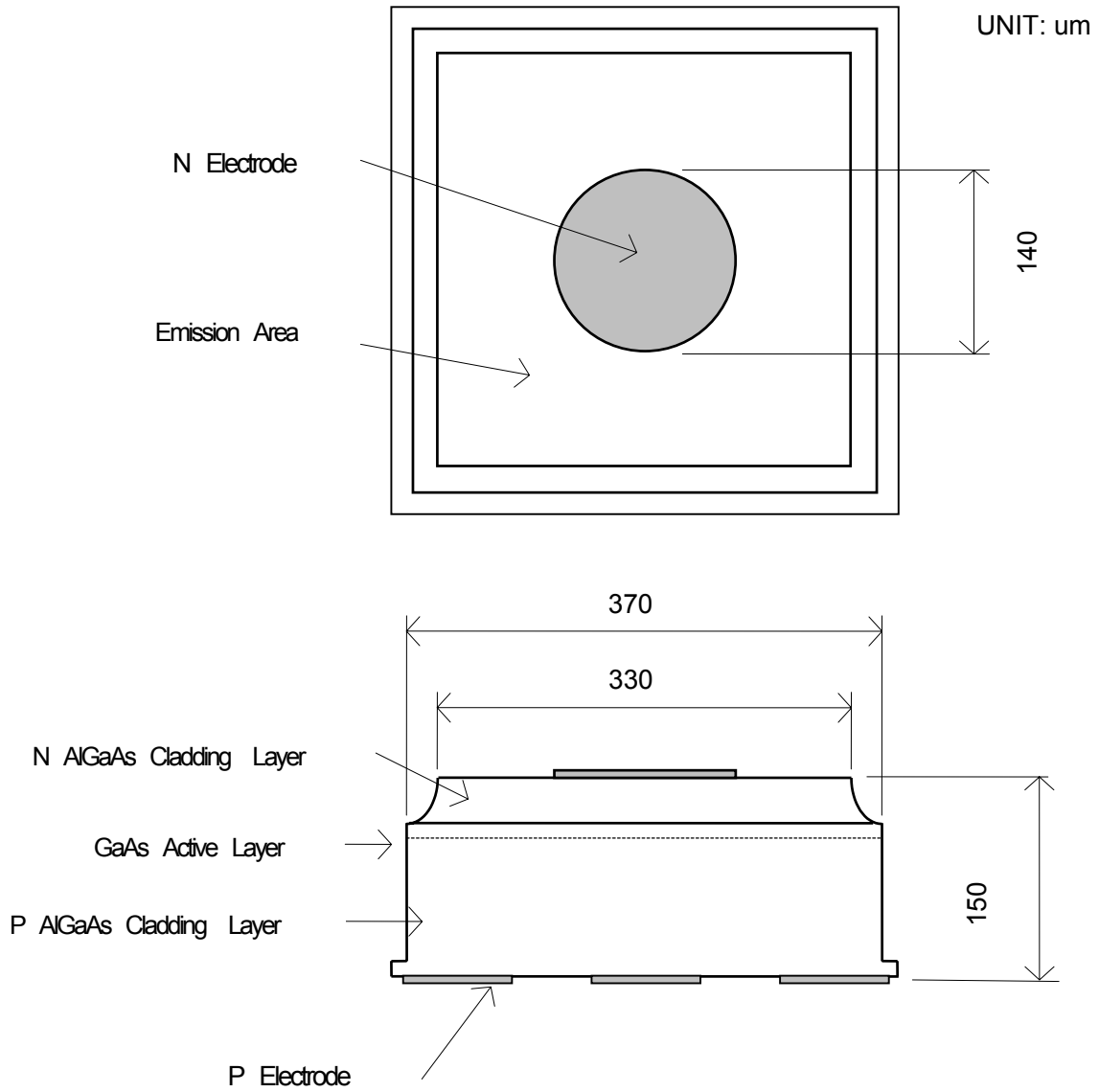
Continuous Maximum Forward Current	: 100 mA(DC)
Reverse Voltage	: 5 V(IR=10uA)
Storage Temperature	
while on mylar membrane	: 0 to 40 deg. C
after removal from mylar membrane	: -40 to 100 deg. C

### 4. PHYSICAL CHARACTERISTICS AND STRUCTURE

1)Material	: AlGaAs
2)Structure	: Double Hetero Structure
3)Die Size	: 0.370mmX0.370mm
4)Thickness	: 0.150mm
5)Bond Pad Size	: 0.140mm diameter
6)Anode Metallization	: Gold Alloy
7)Cathode Metallization	: Gold Alloy

Physical Dimensions

Model IR6RC



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