

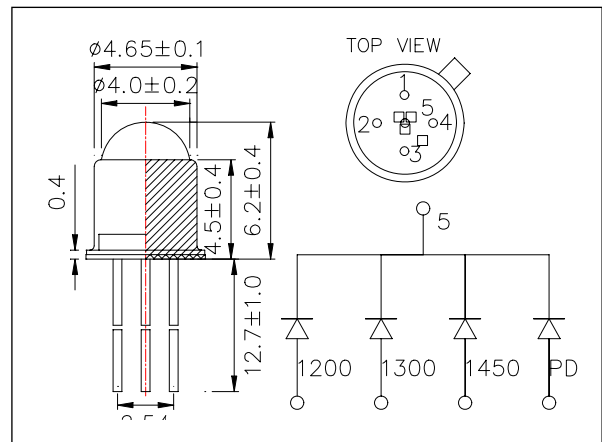
L1200/1300/1450/PD-35B42

Multi-Wavelength LED

Outer Dimension (Unit:mm)

<Specifications>

1. Product Name: Multi-Wavelength LED Lamp
2. Type Number: L1200/1300/1450/PD-35B42
3. Chip:
 - Chip material: InGaAs (LED, PD)
 - Peak Wavelength: 1200,1300,1450nm
- 4.Package
 - Stem: TO-18 5pin type
 - Lens: $\Phi 5\text{mm}$ Spherical Glass



Absolute Maximum Ratings/per each one chip[Ta=25°C]						
Device	Item	Symbol	Maximum Rated Value			Unit
			1200	1300	1450	
LED	Power Dissipation	PD	120			mW
LED	Forward Current	IF	100			mA
LED	Pulse Forward Current	IFP	1000			mA
LED	Reverse Voltage	VR	5			V
PD	Reverse Voltage	VR	10			V
TOPR	Operating Temperature	TOPR	-20 ~ +80			°C
TSTG	Storage Temperature	TSTG	-30 ~ +100			°C
TSOL	Soldering Temperature*	TSOL	240			°C

* Soldering condition must be completed within 3 seconds at 240°C and is allowed in the area apart 3mm from the bottom of the lamp

Electro-Optical Characteristics [Ta=25°C]												
Device	Item	Condition	Min			Typ			Max			Unit
			1200	1300	1450	1200	1300	1450	1200	1300	1450	
LED	Forward Voltage	IF=20mA				0.8	0.8	0.8	1.3	1.3	1.3	V
	Reverse Current	VR=5V							10			uA
	Total Radiated Power*	IF=20mA				1.3	1.3	1.0				mW
	Peak Wavelength	IF=20mA	1150	1250	1400	1200	1300	1450	1250	1350	1500	nm
	Half Width	IF=20mA				75	75	75				nm
PD	Output Current	IF=20mA VR=0V				45	45	35				uA
	Dark Current	VR=10V							100			nA

* Measured by Photodyne #500

- Radiated Power of NIR LED are measured by Ando Optical Multi Meter AQ2140 & AQ2742

