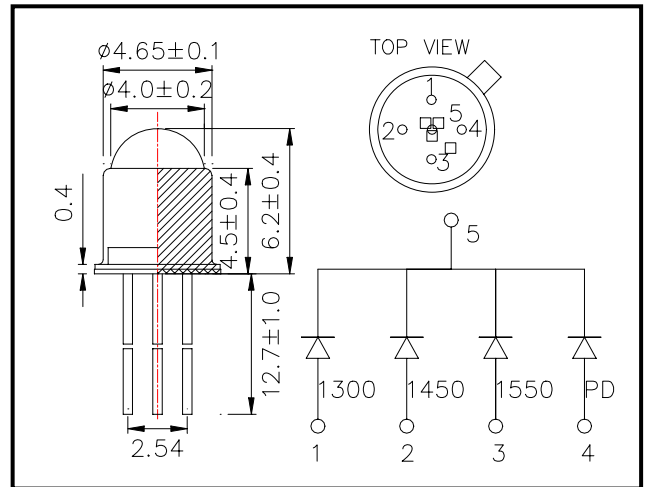


L1300/1450/1550/PD-35B32 multi-wavelength LED

L1300/1450/1550/PD-B32 consists of an InGaAs and an InGaAs PD mounted on TO-18 stem with a spherical glass lens, and is designed to monitor reflected light through detector for controlling its own output power.

◆ Outer dimension (Unit: mm)



◆ Specifications

- 1) Product Name Multi-wavelength LED Lamp
- 2) Type No. L1300/1450/1550/PD-35B32
- 3) Chip
 - (1) Chip material InGaAs(LED, PD)
 - (2) Peak wavelength 1300, 1450 and 1550nm
- 4) Package
 - (1) Stem TO-18 5pin type
 - (2) Lens Φ5mm spherical glass

◆ Absolute Maximum Ratings/ per each one chip [Ta=25°C]

Device	Item	Symbol	Maximum Rated Value			Unit
			1300	1450	1550	
LED	Power Dissipation	PD	120	120	120	mW
LED	Forward Current	IF	100	100	100	mA
LED	Pulse Forward Current	IF	1000	1000	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: 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/ per each one chip [Ta=25°C]

Device	Item	Wavelength	Condition	Minimum	Typical	Maximum	Unit			
LED	Forward Voltage	1300	IF=20mA		0.8	1.3	V			
		1450								
		1550								
	Reverse Current			VR=5V				10	uA	
Total Radiated Power			IF=20mA				mW			
	1300			1.3						
	1450			1.0						
Peak Wavelength			IF=20mA					nm		
	1300			1250	1300				1350	
	1450			1400	1450				1500	
Half Width			IF=20mA				nm			
	1550			1500	1550				1600	
	1300			75						
Output Current			IF=20mA					uA		
	1450			75						
	1550			75						
Dark Current			VR=10V				nA			
	1300			45						
	1450			35						
	1550			35						
						100				

‡Total Radiated Power is measured by Photodyne #500

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