Opto-Device & Custom LED Φ 5 STEM TYPE LED L1200/1300/1450/PD-35B32

Lead (Pb) Free Product – RoHS Compliant

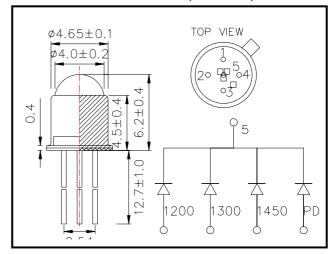
L1200/1300/1450/PD-35B32

L1200/1300/1450/PD-B32 consists of an InGaAs and an InGaAs PD mounted on TO-18 stem with a spherical glass lens, and is designed to moniter reflected light through detector for controlling its own output power.

♦ Specifications

1) Product Name	Multi-wavelength LED Lamp
2) Type No.	L1200/1300/1450/PD-35B32
3) Chip	
(1) Chip material	InGaAs(LED, PD)
(2) Peak wavelength	1200, 1300 and 1450nm
4) Package	
(1) Stem	TO-18 5pin type
(2) Lens	Φ 5mm spherical glass





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

Device	Item	Symbol	Maximum Rated Value			Unit
	Gymbol	1200	1300	1450	Onic	
LED	Power Dissipation	PD	120	120	120	mW
LED	Forward Current	lF	100	100	100	mA
LED	Pulse Forward Current	lF	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
Forward Voltage Reverse Current	1200	IF=20mA		0.8	1.3	V	
	1300			0.8	1.3		
		1450			0.8	1.3	
	Reverse Current		Vr=5V			10	uA
LED Peak Wavelength Half Width	1200	IF=20mA		1.3	[]	mW	
	1300			1.3			
	1450			1.0	<u> </u>		
	1200	IF=20mA	1150	1200	1250	nm nm	
	1300		1250	1300	1350		
	1450		1400	1450	1500		
	1200	IF=20mA		75			
	1300			75			
	1450]	75	_		
PD Output Current Dark Current	1200	IF=20mA		45			
	Output Current	1300	VR=0V		45		uA
		1450]	35	[]	
	Dark Current		VR=10V			100	nA

‡Total Radiated Power is measured by Photodyne #500 ‡Radiated Power of NIR LED are measured by Ando Optical Multi Meter AQ2140 & AQ2742

Marubeni America Corporation

3945 Freedom Circle, Suite 1000, Santa Clara, CA 95054 408-330-0650, 408-330-0655 (Fax), sales@tech-led.com