

## L525/PD010-35D81

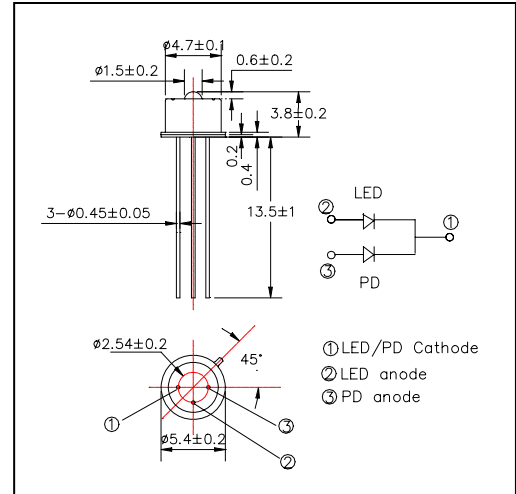
Metal can sealed PD monitoring high power LED

L525/PD010-35D81 consists of a InGaN LED 525nm and a Si-PD mounted on TO-18 stem hermetically sealed a focusing ball lens  $\Phi 1.5$  Glass Ball Lens can and is designed to monitor reflected light through detector for controlling its own output power

### ◆ Specifications

- |                     |                          |
|---------------------|--------------------------|
| 1) Product Name     | LED Lamp with PD Monitor |
| 2) Type No.         | L525/PD010-35D81         |
| 3) Chip             |                          |
| (1) Chip material   | InGaN and Si(PIN)        |
| (2) Peak wavelength | 525nm                    |
| 4) Package          |                          |
| (1) Stem            | $\Phi 5$ mm TO-18        |
| (2) Lens            | Metal Can (Ni Plate)     |

### ◆ Outer dimension (Unit: mm)



### ◆ Absolute Maximum Ratings [Ta=25°C]

Device	Item	Symbol	Maximum Rated	Unit
LED	Power Dissipation	PD	120	mW
LED	Forward Current	IF	30	mA
LED	Pulse Forward Current	IFP	-	A
LED	Reverse Voltage	VR	5	V
PD	Reverse Voltage	VR	100	V
	Operating Temperature	TOPR	-20 ~ +85	°C
	Storage Temperature	TSTG	-30 ~ +95	°C
	Soldering Temperature	TSOL	260	°C

‡Pulse Forward Current condition: duty=1% and  $t_w=10\mu s$ .

‡Soldering condition: Soldering condition must be completed within 3 seconds at 250°C

### ◆ Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.5	4.3	V
Reverse Current	IR	VR=5V			10	$\mu A$
Total Radiated Power	PO	IF=20mA		0.06		mW
Radiant Intensity	IE	IF=20mA		0.3		mW/sr
Peak Wavelength	$\lambda_P$	IF=20mA	515	525	535	nm
Half Width	$\Delta\lambda$	IF=20mA		40		nm
Viewing Half Angle	$\theta_{1/2}$	IF=20mA		$\pm 10$		deg.
Rise Time	tr	IF=20mA		-		ns
Fall Time	tf	IF=20mA		-		ns
Output Current	IL	VR=0V		25		$\mu A$
Dark Current	ID	VR=10V			10	nA

‡Total Radiated Power is measured by Photodyne #500