

L890/PD010-40D52

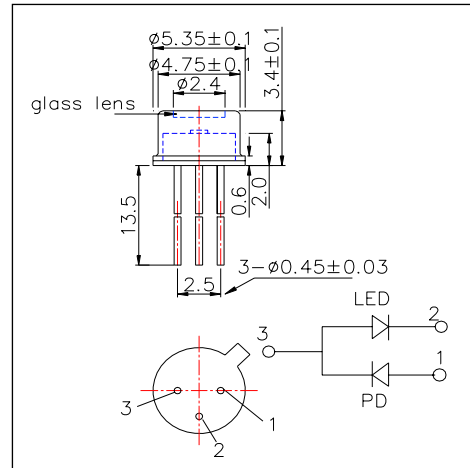
Metal Can sealed PD Monitoring High Power LED

This product consists of GaAlAs LED(880nm) and a Si-PD mounted on TO-18 stem hermetically sealed with a glass flat can, designed to monitor reflected light through detector for controlling its own output power.

<Specifications>

1. Product Name: LED Lamp with PD Monitor
2. Type Number: L890/PD010-40D52
3. Chip:
 - Chip material: GaAlAs and Si(PIN)
 - Peak Wavelength: 880nm
4. Package:
 - Stem: Φ5mm TO-18
 - Can: Metal Can (Gold Plate)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]				
Device	Item	Symbol	Maximum Rated Value	Unit
LED	Power Dissipation	PD	150	mW
LED	Forward Current	IF	100	mA
LED	Pulse Forward Current*	IFP	500	mA
LED	Reverse Voltage	VR	5	V
PD	Reverse Voltage	VR	100	V
	Operating Temperature	TOPR	-20 ~ +85	°C
	Storage Temperature	TSTG	-30 ~ +100	°C
	Soldering Temperature*	TSOL	260	°C

* 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=50mA		1.45	1.70	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=50mA	2.5	5.0		mW
Radiant Intensity	IE	IF=50mA	2.0	4.0		mW/sr
Peak Wavelength	λP	IF=50mA	865	880	895	nm
Half Width	Δλ	IF=50mA		50		nm
Viewing Half Angle	θ1/2	IF=50mA		±40		deg
Rise Time	tr	IF=50mA		800		ns
Fall Time	tf	IF=50mA		400		ns
Output Current	IL	VR=0V	130	260		uA
Dark Current	ID	VR=10V			10	nA

* Measured by Photodyne #500

