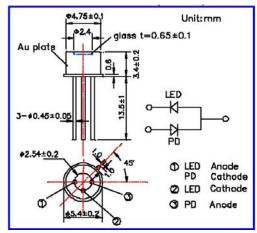


LED890/PD010-40D52

metal can sealed PD monitoring high power LED LED890/PD010-40D52 consists of a GaAlAs LED 890nm and a Si-PD mounted onTO-18 stem hermetically sealed with a glass flat can, and is designed to monitor reflected light through detector for controlling its own output power Outer dimension (Unit:mm)

Specifications

Product Name LED Lamp with PD Monitor Type No. LED890/PD010-40D52 Chip Chip material GaAIAs , Si (PIN) Peak wavelength 890 nm Package Stem TO-18 Lens f2.4 Flat Glass Can Metal Can (Gold Plate)



Absolute Maximum	Ratings [Ta=25°C]
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Device	ltem	Symbol	Maximum Rated	Unit
LED	Power Dissipation	Po	150	mW
LED	Forward Current	lf	100	mA
LED	Pulse Forward Current	IFP	1000	А
LED	Reverse Voltage	Vr	5	V
PD	Reverse Voltage	Vr	100	V
	Operating Temperature	Topr	-20 ~ +85	°C
	Storage Temperature	Тѕтс	-30 ~ +100	°C
	Soldering Temperature	Tso∟	260	°C

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

Electro-Optical Charactaristics [Ta=25°C]

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ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit		
Forward Voltage	Vf	I⊧=50mA		1.45	1.70	V		
Reverse Current	Ir	Vr=5V			10	uA		
Total Radiated Power	Po	I⊧=50mA	2.5	5.0		mW		
Radiant Intensity	ΙE	I⊧=50mA	2.0	4.0		mW/sr		
Peak Wavelength	IР	I⊧=50mA		890		nm		
Half Width	DI	I⊧=50mA		50		nm		
Viewing Half Angle	Q1/2	I⊧=50mA		±40		deg.		
Rise Time	tr	I⊧=50mA		800		ns		
Fall Time	tf	I⊧=50mA		400		ns		
Output Current	١L	Vr=0V	130	260		uA		
Dark Current	lo	Vr=10V			10	nA		
Total Radiated Power is measured by Photodyne #500								

‡Total Radiated Power is measured by Photodyne #500