

Lead (Pb) Free Product – RoHS Compliant

L525/PD010-35D52

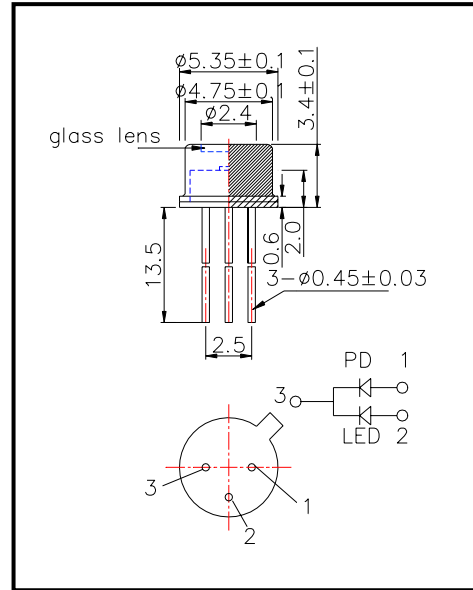
Metal can sealed PD monitoring high power LED

L525/PD010-35D52 consists of a InGaN LED 525nm 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

◆ Specifications

- 1) Product Name LED Lamp with PD Monitor
- 2) Type No. L525/PD010-35D52
- 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 (Gold Plate)

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings [Ta=25°C]

Device	Item	Symbol	Maximum Rated	Unit
LED	Power Dissipation	P _D	120	mW
LED	Forward Current	I _F	30	mA
LED	Pulse Forward Current	I _{FP}	-	A
LED	Reverse Voltage	V _R	5	V
PD	Reverse Voltage	V _R	100	V
	Operating Temperature	T _{OPR}	-20 ~ +85	°C
	Storage Temperature	T _{STG}	-30 ~ +95	°C
	Soldering Temperature	T _{SOL}	260	°C

‡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	V _F	I _F =20mA		3.5	4.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		2.0		mW
Radiant Intensity	I _E	I _F =20mA		-		mW/sr
Peak Wavelength	λ_P	I _F =20mA	515	525	535	nm
Half Width	$\Delta\lambda$	I _F =20mA		40		nm
Viewing Half Angle	$\theta_{1/2}$	I _F =20mA		±55		deg.
Rise Time	t _r	I _F =20mA		-		ns
Fall Time	t _f	I _F =20mA		-		ns
Output Current	I _L	V _R =0V		55		uA
Dark Current	I _D	V _R =10V			10	nA

‡Total Radiated Power is measured by Photodyne #500