

L1050-35T52 High Power InGaAsP IR LED

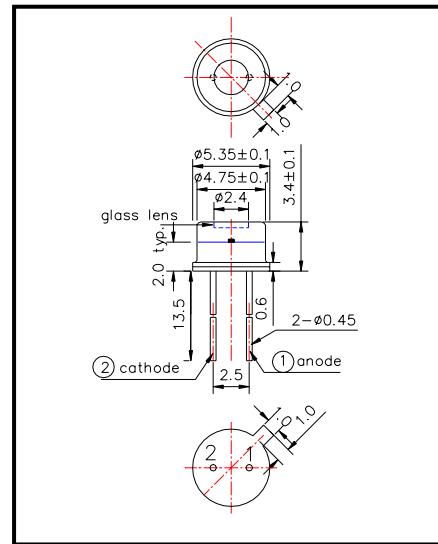
L1050-35T52 is InGaAsP LED mounted on TO-18 stem and hermetically sealed with flat glass can.

On forward bias it emits a spectral band of radiation, which peaks at 1050nm.

◆ Features

- 1) Wide viewing angle
- 2) High Reliability

◆ Outer dimension (Unit:mm)



◆ Specifications

- 1) Product Name NIR LED Lamp
- 2) Type No. L1050-35T52
- 3) Chip Spec.
 - (1) Material InGaAsP/InP
 - (2) Peak Wavelength 1050nm
- 4) Package
 - (1) Type TO-18 stem
 - (2) Lens Φ2.4 flat glass lens
 - (3) Cap Gold plated

◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	140	mW	T _a =25°C
Forward Current	I _F	100	mA	T _a =25°C
Pulse Forward Current	I _{FP}	1000	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=1us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		1.1	1.5	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		0.4		mW
Peak Wavelength	λ _P	I _F =20mA	1000	1050	1100	nm
Half Width	Δλ	I _F =20mA		100		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±55		deg.
Rise Time	t _r	I _F =20mA		10		ns
Fall Time	t _f	I _F =20mA		10		ns

‡Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2742