

L1550-35D52

Stem type LED with Flat Glass Cap

L1550-35D52 is an InGaAsP LED mounted on a TO-18 stem with a flat glass lens being designed for fiber uses.

On forward bias it emits a spectral band of radiation, which peaks at 1550nm.

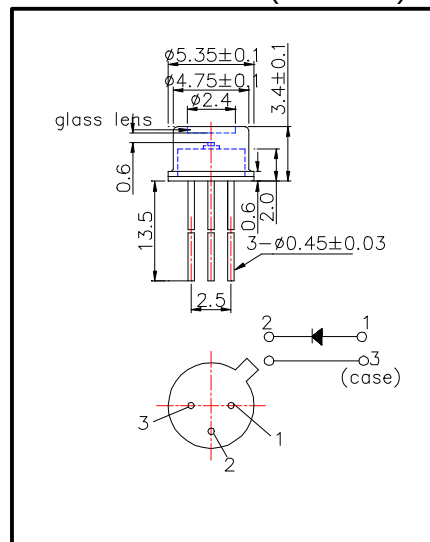
Features

- 1) High Power
- 2) Flat Glass Cap

Specifications

- | | |
|---------------------|--------------------|
| 1) Product Name | NIR LED Lamp |
| 2) Type No. | L1550-35D52 |
| 3) Chip Spec. | |
| (1) Material | InGaAs/InP |
| (2) Peak Wavelength | 1550nm |
| 4) Package | |
| (1) Type | TO-18 stem (3pins) |
| (2) Lens | Flat glass lens |
| (3) Cap | Gold plated |

Outer dimension (Unit: mm)



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	120	mW	$T_a=25^\circ\text{C}$
Forward Current	I_F	100	mA	$T_a=25^\circ\text{C}$
Pulse Forward Current	I_{FP}	1000	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	V_R	3	V	$T_a=25^\circ\text{C}$
Operating Temperature	T_{OPR}	-20 ~ +90	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	T_{SOL}	260	$^\circ\text{C}$	

‡ Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡ 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	$I_F=50\text{mA}$		1.1	1.4	V
Reverse Current	I_R	$V_R=3\text{V}$			10	μA
Total Radiated Power	P_O	$I_F=50\text{mA}$		1.2		mW
Peak Wavelength	λ_P	$I_F=50\text{mA}$	1500	1550	1600	nm
Half Width	$\Delta\lambda$	$I_F=50\text{mA}$		100		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=50\text{mA}$		± 55		deg.
Rise Time	t_r	$I_F=50\text{mA}$		10		ns
Fall Time	t_f	$I_F=50\text{mA}$		10		ns

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

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