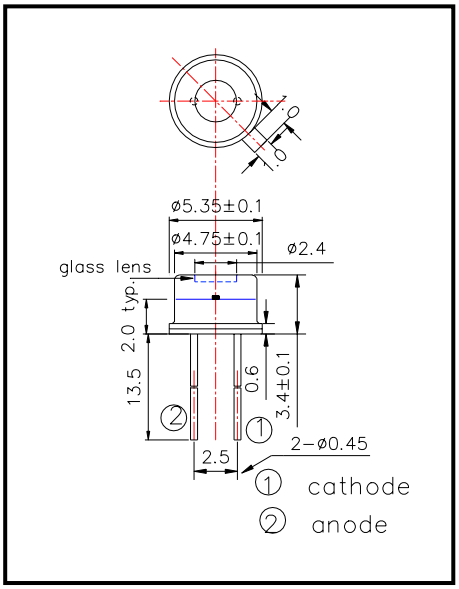
L700-40T52 stem type LED with flat glass

L700-40T52 is AlGaAs 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 700nm.

♦Features
1) Wide viewing angle
2) High Reliability

♦Outer dimension(unit:mm)



♦Specifications

1) Product Name	Infrared LED Lamp
2) Type No.	L700-40T52
3) Chip Spec.	
(1) Material	AlGaAs
(2)PeakWavelength	700nm
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	110	mW	Ta=25
Forward Current	I_F	50	mA	Ta=25
Pulse Forward Current	I_{FP}	200	mA	Ta=25
Reverse Voltage	V_R	5	V	Ta=25
Operating Temperature	T_{OPR}	-30 ～ +100	°C	
Storage Temperature	T_{STG}	-30 ～ +110	°C	
Soldering Temperature	T_{SOL}	260	°C	

‡Pulse Forward Current condition : Duty=1% and Pulse Width=10us.
‡Soldering condition : Soldering condition must be completed within 3 seconds at 260℃

♦Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F=20mA		1.90	2.30	V
Reverse Current	I_R	V_R=5V			10	uA
Total Radiated Power	P_O	I_F=20mA	1.0	2.0		mW
Radiant Intensity	I_E	I_F=20mA		0.5		mW/sr
Peak Wavelength	λ_P	I_F=20mA	680	700	720	nm
Half Width	$\Delta\lambda$	I_F=20mA		20		nm
Viewing Half Angle	$\Theta_{1/2}$	I_F=20mA		±55		deg.
Rise Time	tr	I_F=20mA		80		ns
Fall Time	tf	I_F=20mA		80		ns

‡Total Radiated Power is measured by Photodyne #500
‡Radiant Intensity is measured by Tektronix J-6512

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