

LNA4905L

GaAs Infrared Light Emitting Diode

For optical control equipment

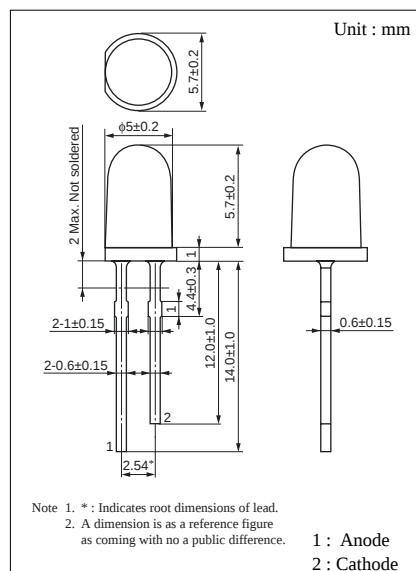
■ Features

- High output power, high-efficiency : (15 mW min.)
- Quick response, high speed modulation ($f_c=30$ MHz typ.)
- Transparent epoxy resin package

■ Absolute Maximum Ratings $T_a=25^\circ\text{C}$

Parameter	Symbol	Ratings	Unit
Power dissipation	P_D	190	mW
Forward current(DC)	I_F	100	mA
Pulse forward current *	I_{FP}	1	A
Reverse voltage(DC)	V_R	3	V
Operating ambient temperature	T_{opr}	-25 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-30 to +100	$^\circ\text{C}$

Note) * : $f=100$ Hz, Duty cycle=0.1%



■ Electro-optical $T_a=25^\circ\text{C}\pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	min	typ	max	Unit
Total power output	P_O	$I_F=50$ mA	15			mW
Peak emission wavelength	λ_p	$I_F=50$ mA		880		nm
Spectral half band width	$\Delta\lambda$	$I_F=50$ mA		50		nm
Forward voltage (DC)	V_F	$I_F=100$ mA		1.7	2.1	V
Reverse current (DC)	I_R	$V_F=3$ V			10	μA
Half-power angle	θ	The angle when the beam intensity is halved		15		deg

Note) 1. Cut-off frequency : 30 MHz

2. LED might radiate red light under large current drive.

Caution for Safety

 **DANGER**

Gallium arsenide material (GaAs) is used in this product.

Therefore, do not burn, destroy, cut, crush, or chemically decompose the product, since gallium arsenide material in powder or vapor form is harmful to human health.

Observe the relevant laws and regulations when disposing of the products. Do not mix them with ordinary industrial waste or household refuse when disposing of GaAs-containing products.

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