### LN66L (LN66(L)) GaAs Infrared Light Emitting Diode

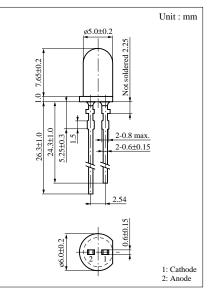
For optical control systems

### Features

- High-power output, high-efficiency :  $P_0 = 8 \text{ mW}$  (typ.)
- Emitted light spectrum suited for silicon photodetectors
- Good radiant power output linearity with respect to input current
- Wide directivity :  $\theta = 25$  deg. (typ.)
- Transparent epoxy resin package
- Long lead-wire type

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Parameter	Symbol	Ratings	Unit
Power dissipation	P <sub>D</sub>	160	mW
Forward current (DC)	I <sub>F</sub>	100	mA
Pulse forward current	I <sub>FP</sub> *	1.5	А
Reverse voltage (DC)	V <sub>R</sub>	3	V
Operating ambient temperature	T <sub>opr</sub>	-25 to +85	°C
Storage temperature	T <sub>stg</sub>	- 40 to +100	°C
* $f = 100 \text{ Hz}$ Duty avala = 0.1.0/			

#### Absolute Maximum Ratings ( $Ta = 25^{\circ}C$ )



f = 100 Hz, Duty cycle = 0.1 %

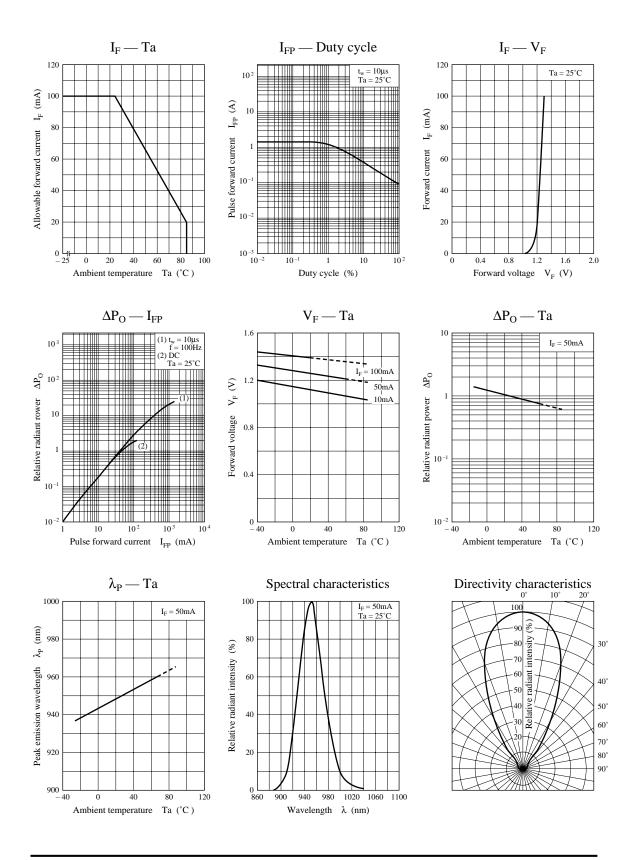
Parameter	Symbol	Conditions	min	typ	max	Unit
Radiant power	P <sub>0</sub> *	$I_F = 50 mA$	5	8		mW
Peak emission wavelength	$\lambda_{\rm P}$	$I_F = 50 mA$		950		nm
Spectral half band width	Δλ	$I_F = 50 \text{mA}$		50		nm
Forward voltage (DC)	V <sub>F</sub>	$I_F = 100 \text{mA}$		1.3	1.6	V
Reverse current (DC)	I <sub>R</sub>	$V_R = 3V$			10	μΑ
Capacitance between pins	Ct	$V_R = 0V$ , $f = 1MHz$		35		pF
Half-power angle	θ	The angle in which radiant intencity is 50%		25		deg.

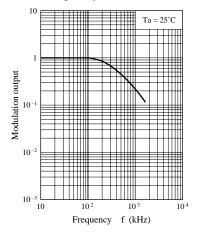
### Electro-Optical Characteristics ( $Ta = 25^{\circ}C$ )

\* Po Classifications

Class	R	S
P <sub>O</sub> (mW)	5 to 8	>7

Note) The part number in the parenthesis shows conventional part number.





# ▲ Caution for Safety



## 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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