

LNA2802L (LN68)

GaAs Infrared Light Emitting Diode

For optical control systems

■ Features

- High-power output, high-efficiency : $P_O = 5 \text{ mW}$ (typ.)
- Emitted light spectrum suited for silicon photodetectors :
 $\lambda_p = 940 \text{ nm}$ (typ.)
- Good radiant power output linearity with respect to input current
- Long lifetime, high reliability
- $\phi 3$ plastic package

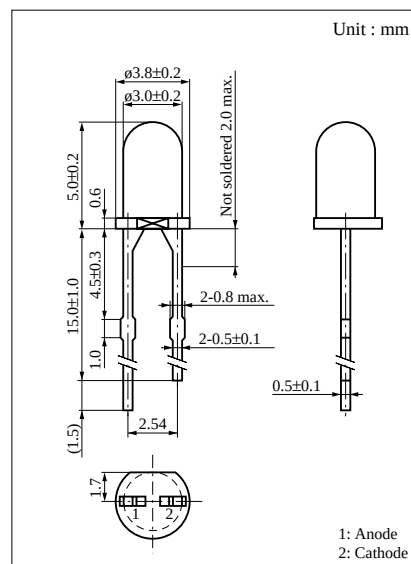
■ Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Ratings	Unit
Power dissipation	P_D	75	mW
Forward current (DC)	I_F	50	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}	-40 to +100	$^\circ\text{C}$

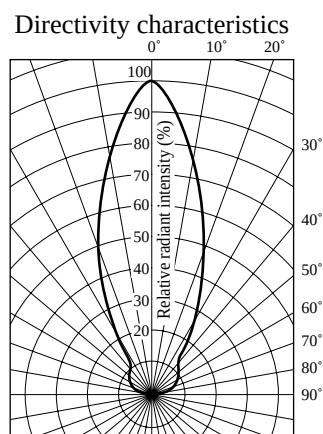
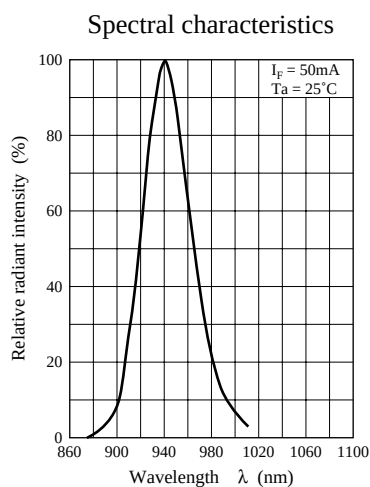
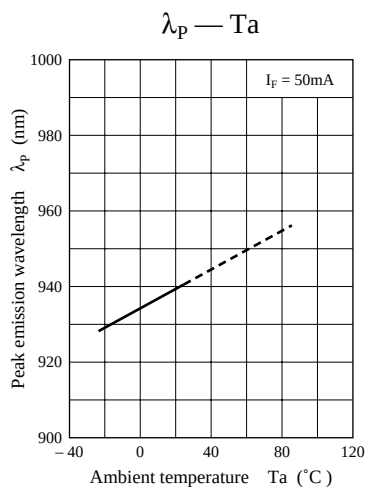
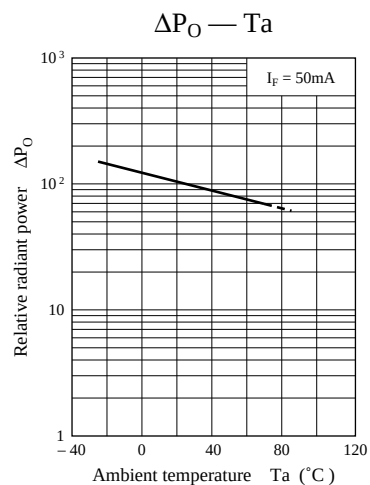
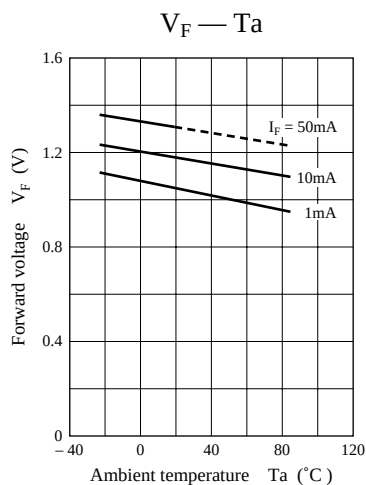
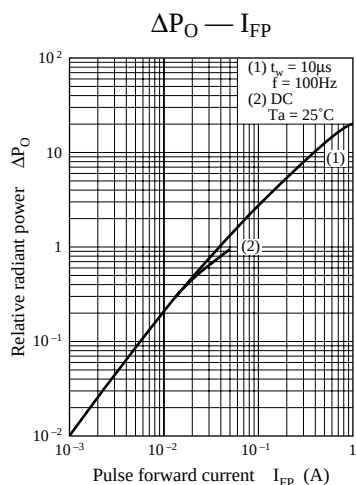
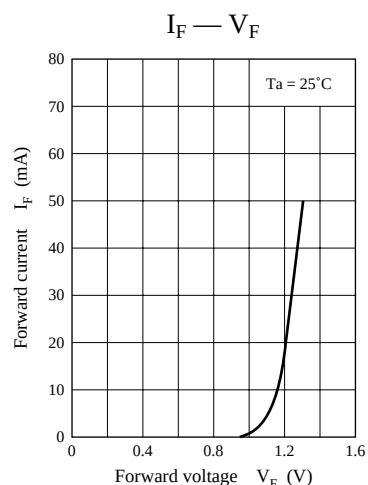
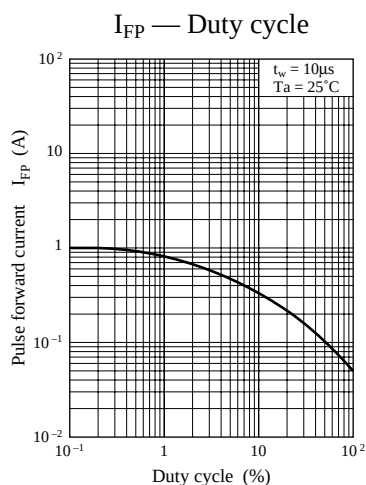
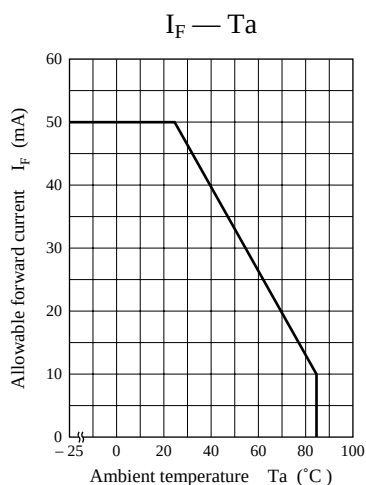
* $f = 100 \text{ Hz}$, Duty cycle = 0.1 %

■ Electro-Optical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	min	typ	max	Unit
Radiant power	P_O	$I_F = 50\text{mA}$	2.5	5		mW
Peak emission wavelength	λ_p	$I_F = 50\text{mA}$		940		nm
Spectral half band width	$\Delta\lambda$	$I_F = 50\text{mA}$		50		nm
Forward voltage (DC)	V_F	$I_F = 50\text{mA}$		1.3	1.5	V
Reverse current (DC)	I_R	$V_R = 3\text{V}$			10	μA
Capacitance between terminals	C_t	$V_R = 0\text{V}$, $f = 1\text{MHz}$		35		pF
Half-power angle	θ	The angle in which radiant intensity is 50%		20		deg.



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



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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JONHON

«JONHON» (основан в 1970 г.)

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кабельные сборки и микроволновые компоненты:

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А