LN162S

GaAs Infrared Light Emitting Diode

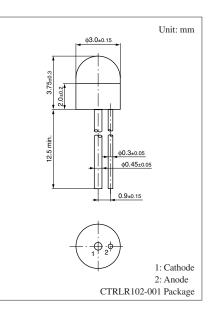
For optical control systems

Features

- High-power output, high-efficiency: $P_0 = 3.5 \text{ mW}$ (typ.)
- Infrared light emission close to monochromatic light: $\lambda_P = 950 \text{ nm (typ.)}$
- Small ceramic package

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	3	V
Forward current	I_F	50	mA
Pulse forward current *	I _{FP}	1.0	А
Power dissipation	P _D	75	mW
Operating ambient temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-30 to +100	°C



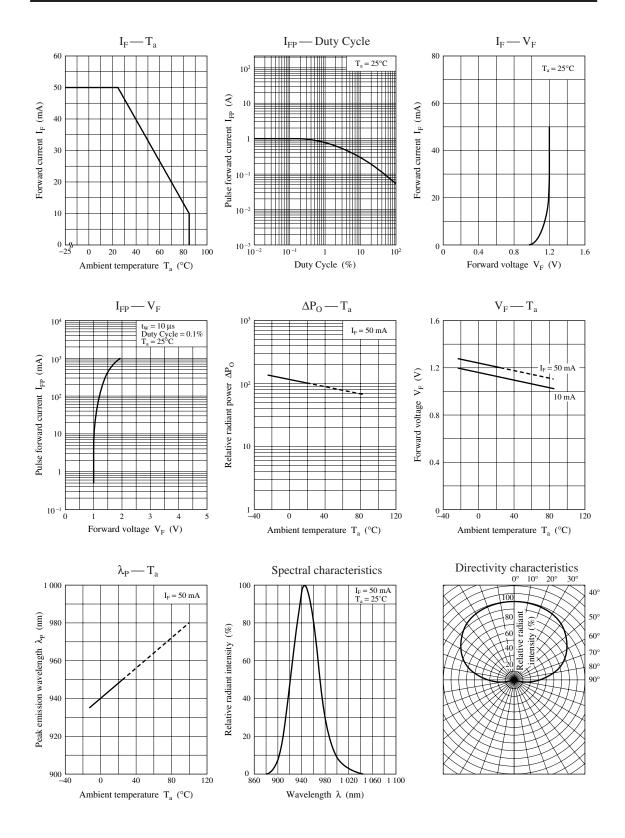
Note) *: f = 100 Hz, Duty Cycle = 0.1%

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 50 \text{ mA}$		1.2	1.5	V
Reverse current	I _R	$V_R = 3 V$			10	μΑ
Radiant power *	Po	$I_F = 50 \text{ mA}$	1.5	3.5		mW
Peak emission wavelength	$\lambda_{\rm P}$	$I_F = 50 \text{ mA}$		950		nm
Spectral half band width	Δλ	$I_F = 50 \text{ mA}$		50		nm
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		50		pF
Half-power angle	θ	The angle when the radiant power is halved		80		0

Electrical-Optical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. *: A light detection element uses a silicon diode have proofread a load with a standard device.



▲ Caution for Safety

⚠ DANGER

This product contains Gallium Arsenide (GaAs).

GaAs powder and vapor are hazardous to human health if inhaled or ingested. Do not burn, destroy, cut, cleave off, or chemically dissolve the product. Follow related laws and ordinances for disposal. The product should be excluded form general industrial waste or household garbage.

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