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: $\lambda_P = 950 \text{ nm} (\text{typ.})$
- Small ceramic package

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

Parameter	Symbol	Rating	Unit	
Power dissipation	P _D	75	mW	
Forward current	I _F	50	mA	
Pulse forward current *	I _{FP}	1.0	Α	
Reverse voltage	V _R	3	V	
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%

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

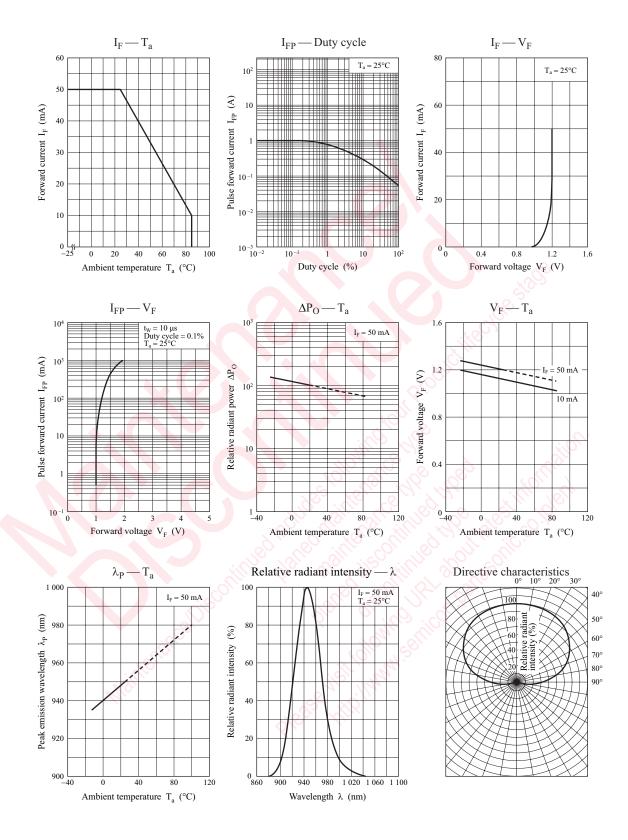
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Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Radiant power *	Po	$I_F = 50 \text{ mA}$	1.5	3.5		mW
Reverse current	I _R	$V_{\rm R} = 3 V$	&	S. N	10	μΑ
Forward voltage	V _F	$I_{\rm F} = 50 \mathrm{mA}$	X B	1.2	1.5	V
Terminal capacitance	Ct	$V_{\rm R} = 0$ V, f = 1 MHz		50		pF
Peak emission wavelength	λ_{P}	$I_{\rm F} = 50 \mathrm{mA}$	(A)	950		nm
Spectral half band width	Δλ	$I_F = 50 \text{ mA}$		50		nm
Half-power angle	θ	The angle when the radiant power is halved.		80		0

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.

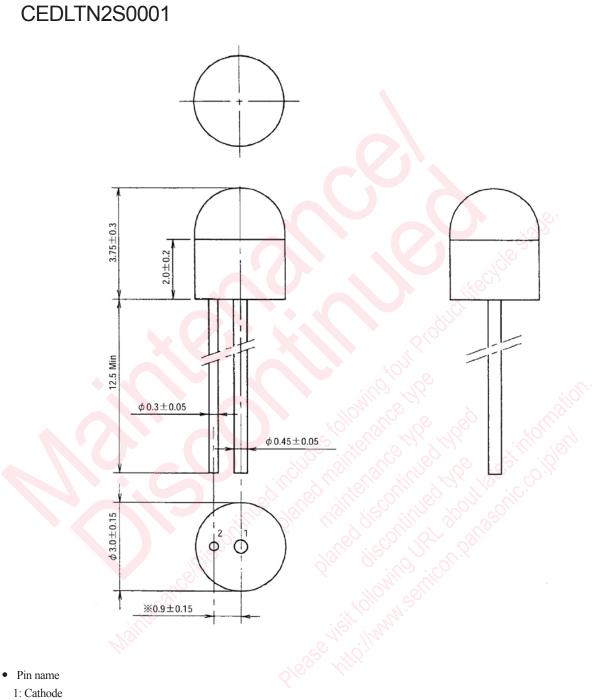
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Package (Unit: mm)



2: Anode

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