## **LN162S**

### GaAs Infrared Light Emitting Diode

For optical control systems

#### ■ Features

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

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Power dissipation	$P_{\mathrm{D}}$	75	mW	
Forward current	$I_{\mathrm{F}}$	50	mA	
Pulse forward current *	I <sub>FP</sub>	1.0	A	
Reverse voltage	V <sub>R</sub>	3	V	
Operating ambient temperature	T <sub>opr</sub>	-25 to +85	°C	
Storage temperature	$T_{\rm stg}$	-30 to +100	°C	

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

#### ■ Electro-Optical Characteristics $T_a = 25$ °C±3°C

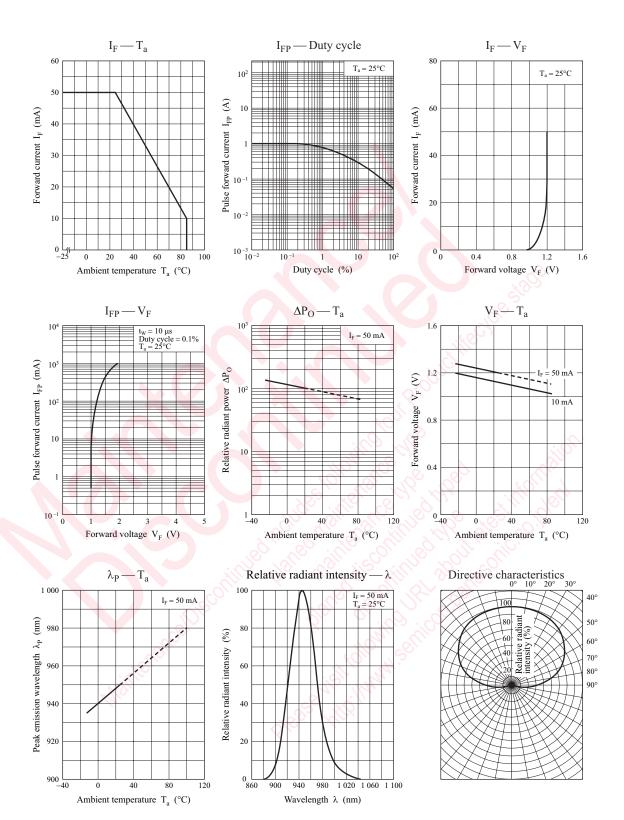
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Radiant power *	Po	$I_F = 50 \text{ mA}$	1.5	3.5		mW
Reverse current	$I_R$	$V_R = 3 V$	©	5	10	μΑ
Forward voltage	$V_{\rm F}$	$I_F = 50 \text{ mA}$	1 10	1.2	1.5	V
Terminal capacitance	C <sub>t</sub>	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	10/1/2	50		pF
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 50 \text{ mA}$	1000	950		nm
Spectral half band width	Δλ	$I_F = 50 \text{ mA}$	150	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.

<sup>2. \*:</sup> A light detection element uses a silicon diode have proofread a load with a standard device.

LN162S

### **Panasonic**

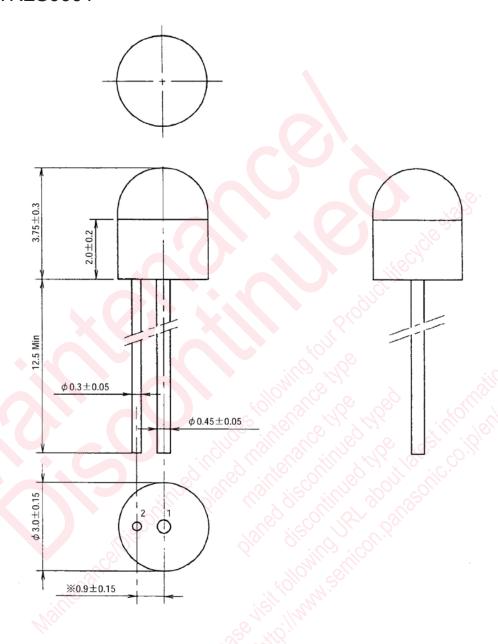


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Panasonic LN162S

■ Package (Unit: mm)

### CEDLTN2S0001



- Pin name
  - 1: Cathode
  - 2: Anode

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