# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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## 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	
Power dissipation	P <sub>D</sub>	75	mW	
Forward current	I <sub>F</sub>	50	mA	
Pulse forward current *	I <sub>FP</sub>	1.0	Α	
Reverse voltage	V <sub>R</sub>	3	V	
Operating ambient temperature	T <sub>opr</sub>	-25 to +85	°C	
Storage temperature	T <sub>stg</sub>	-30 to $+100$	°C	

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

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

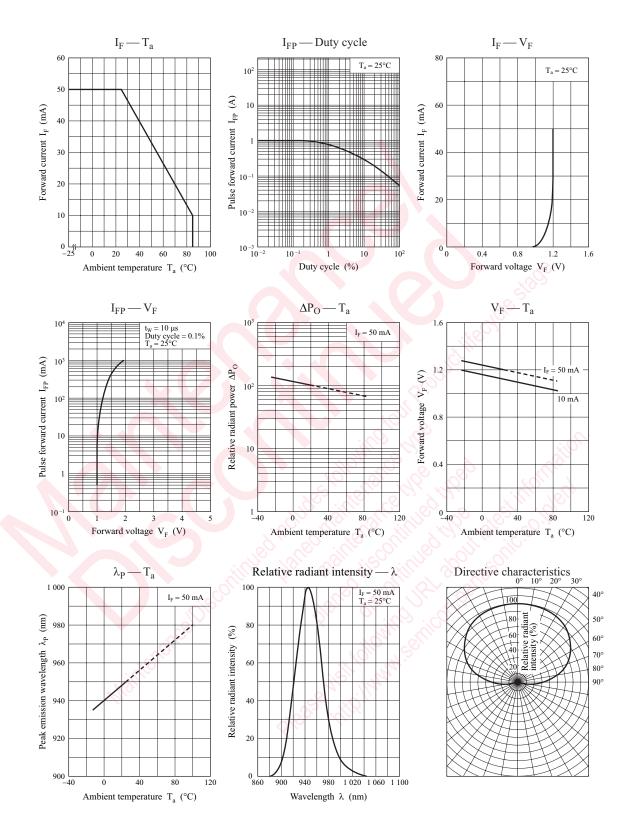
				XIV			
Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Radiant power *	Po	$I_{\rm F} = 50 \mathrm{mA}$	1.5	3.5		mW	
Reverse current	I <sub>R</sub>	$V_R = 3 V$		S. N	10	μΑ	
Forward voltage	V <sub>F</sub>	$I_F = 50 \text{ mA}$	X 100	1.2	1.5	V	
Terminal capacitance	Ct	$V_{\rm R} = 0  \text{V},  \text{f} = 1  \text{MHz}$	OD. C	50		pF	
Peak emission wavelength	λ <sub>P</sub>	$I_F = 50 \text{ mA}$	600	950		nm	
Spectral half band width	Δλ	I <sub>F</sub> = 50 mA	20	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.

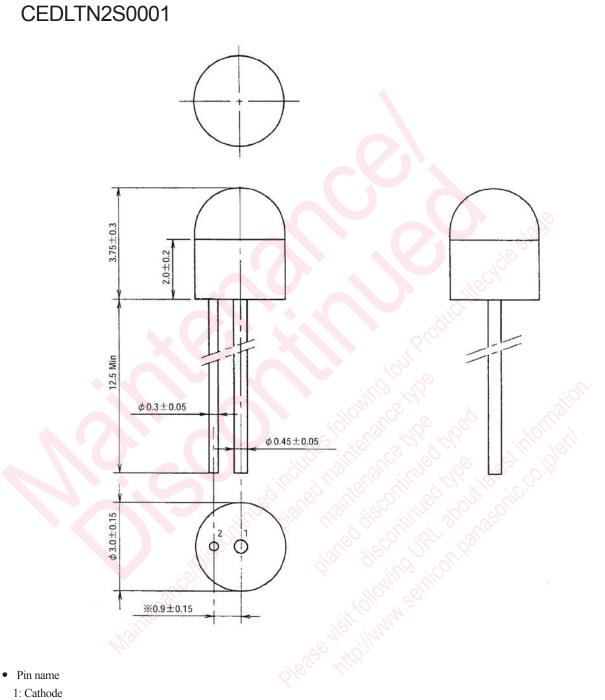
#### LN162S

### **Panasonic**



## **Panasonic**

Package (Unit: mm)



2: Anode

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