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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LNA4801L

GaAlAs Infrared Light Emitting Diode

For optical control systems

Features

- Fast response and high-speed modulation capability: $f_C = 20$ MHz (typ.)
- Wide directivity: $\theta = 22^{\circ}$ (typ.)
- Transparent epoxy resin package

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

Parameter	Symbol	Rating	Unit	
Power dissipation	P _D	190	mW	
Forward current	I _F	100	mA	
Pulse forward current *	I _{FP}	1	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%

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	I _R	$V_R = 3 V$	Č	10%	10	μΑ
Forward voltage	V _F	I _F = 100 mA	8	1.6	1.9	V
Center radiant intensity	Ie	I _F = 50 mA	12		48	mW/sr
Peak emission wavelength *	$\lambda_{\rm P}$	$I_F = 50 \text{ mA}$	on c	860		nm
Spectral half band width *	Δλ	$I_F = 50 \text{ mA}$	allo.	40		nm
Half-power angle	θ	The angle when the radiant power is halved.	80	22		0

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

2. Cutoff frequency: 20 MHz

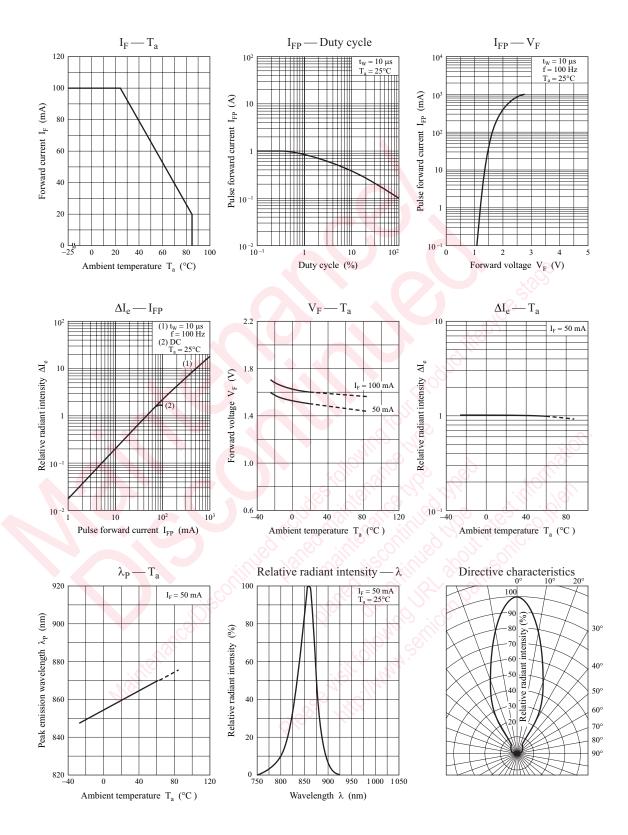
$$f_{\rm C}: 10 \times \log \frac{P_{\rm O} \text{ at } f = f_{\rm C}}{P_{\rm O} \text{ at } f = 1 \text{ MHz}}$$

3. *: LED might radiate red light under large current drive.

= -3

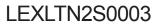
LNA4801L

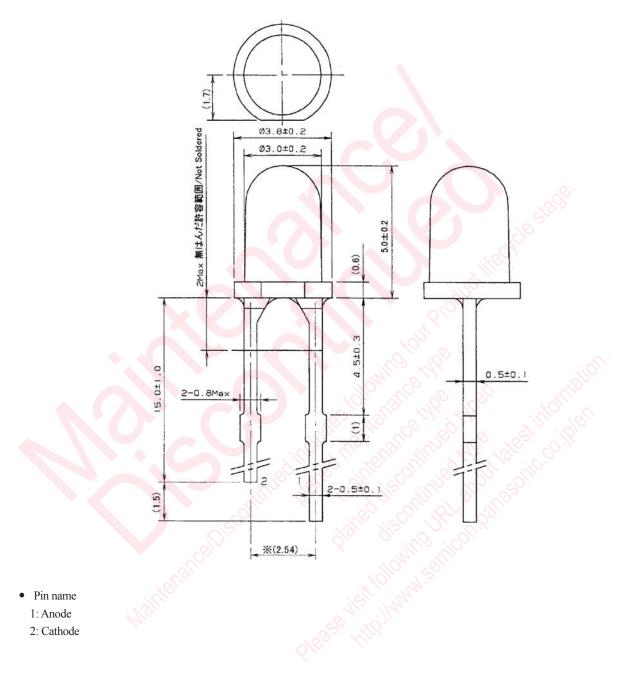
Panasonic



Panasonic

Package (Unit: mm)





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