

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!



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LNA2802L (LN68)

GaAs Infrared Light Emitting Diode

For optical control systems

■ Features

- High-power output, high-efficiency: $P_O = 5 \text{ mW (typ.)}$
- Emitted light spectrum suited for silicon photodetectors
- Good radiant power output linearity with respect to input current
- Long lifetime, high reliability
- \$\phi 3\$ plastic package

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Symbol Rating	
Power dissipation	P_{D}	75	mW
Forward current	I_{F}	50	mA
Pulse forward current *	I_{FP}	1	A
Reverse voltage	V_R	3	V
Operating ambient temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-40 to +100	°C

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

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Radiant power	P _O	$I_F = 50 \text{ mA}$	2.5	5.0		mW
Reverse current	I_R	$V_R = 3 V$	Son "ec		10	μΑ
Forward voltage	V_{F}	$I_F = 50 \text{ mA}$	3/10	1.3	1.5	V
Terminal capacitance	C_{t}	$V_R = 0 V, f = 1 MHz$		35		pF
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 50 \text{ mA}$		940		nm
Spectral half band width	Δλ	I _F = 50 mA		50		nm
Half-power angle	θ	The angle when the radiant power is halved.		20		0

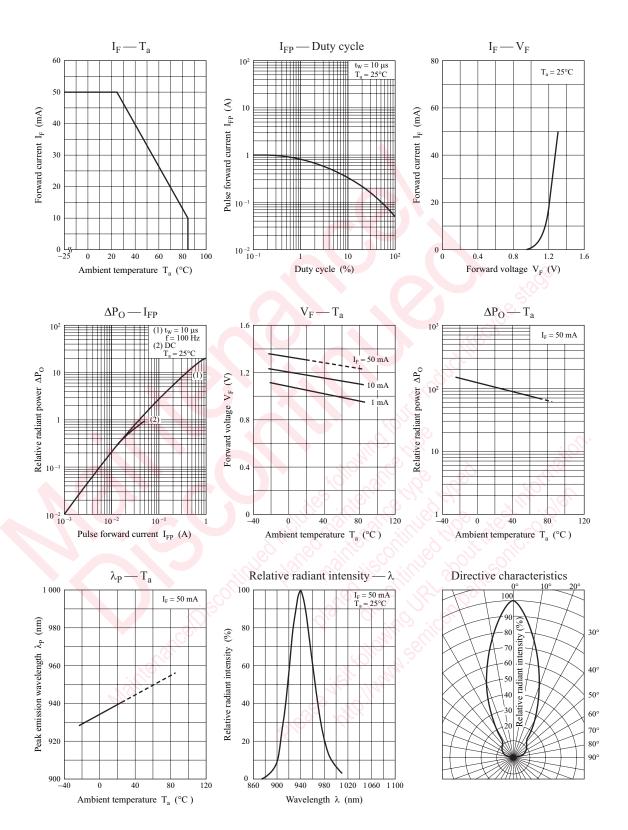
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Cutoff frequency: 1 MHz

$$f_C: 10 \times log \frac{P_O \text{ at } f = f_C}{P_O \text{ at } f = 50 \text{ kHz}} = -3$$

LNA2802L

Panasonic

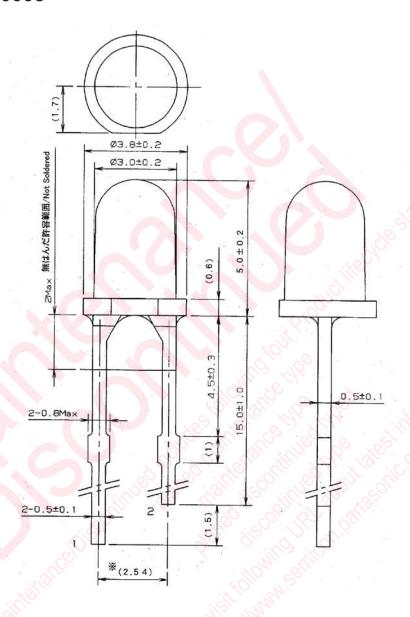


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Panasonic LNA2802L

■ Package (Unit: mm)

LEXLTN2S0003



- Pin name
 - 1: Anode
 - 2: Cathode

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