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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LNA2701L (LN159)

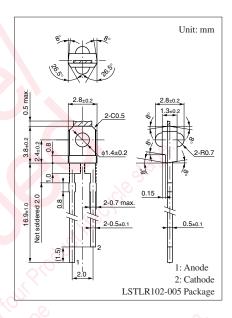
GaAs Infrared Light Emitting Diode

VTR tape and sensor

Features

- Two-way directivity
- High-power output, high-efficiency: $I_e = 1.2 \text{ mW/sr}$
- Small resin package
- Long lifetime, high reliability
- Thin type package modified from LN59

Absolute Maximum Ratings $T_a = 25^{\circ}C$						
Parameter	Symbol	Rating	Unit			
Reverse voltage	V _R	3	V			
Forward current	I _F	50	mA			
Pulse forward current *	I _{FP}	1	А			
Power dissipation	P _D	75	mW			
Operating ambient temperature	T _{opr}	-25 to +65	°C			
Storage temperature	T _{stg}	-30 to +85	°C			



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

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

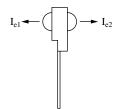
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 50 \text{ mA}$	02	1.3	1.5	V
Reverse current	I _R	$V_R = 3 V$	0. <	57	10	μΑ
Center radiant intensity *	I _e	$I_F = 50 \text{ mA}$	1.2			mW/sr
Peak emission wavelength	$\lambda_{\rm P}$	$I_F = 20 \text{ mA}$		940		nm
Spectral half band width	Δλ	$I_F = 20 \text{ mA}$		50		nm
Terminal capacitance	Ct	$V_{R} = 0 V, f = 1 MHz$		35		pF

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

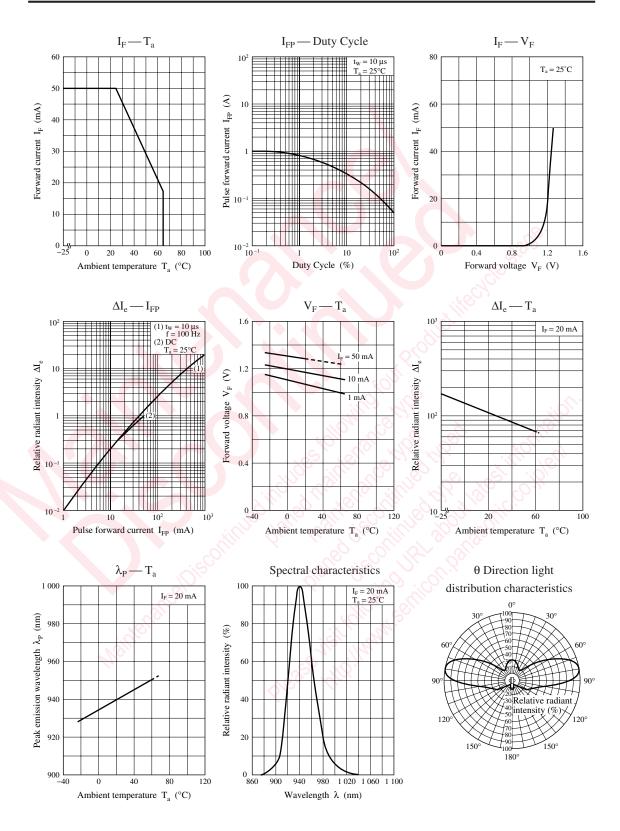
2. Cutoff frequency: 1 MHz

$$f_{\rm C}$$
: 10 × log $\frac{P_{\rm O}$ at f = f_{\rm C}}{P_{\rm O} at f = 50 kHz = -3

3. *: Radiant intensity I_e shows each value of intensity I_{e1} and I_{e2} in two directions.



Note) The part number in the parenthesis shows conventional part number.



▲Caution for Safety

This product contains Gallium Arsenide (GaAs).

GaAs powder and vapor are hazardous to human health if inhaled or ingested. Do not burn, destroy, cut, cleave off, or chemically dissolve the product. Follow related laws and ordinances for disposal. The product should be excluded from general industrial waste or household garbage.

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