LNA2701L (LN159)

GaAs Infrared Light Emitting Diode

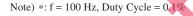
VTR tape and sensor

■ 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 $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	3	V
Forward current	I_{F}	50	mA
Pulse forward current *	I_{FP}	1	A
Power dissipation	P_{D}	75	mW
Operating ambient temperature	Topr	-25 to +65	°C
Storage temperature	T _{stg}	-30 to +85	°C



Unit: mm 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±0.2 2.8±

■ Electrical-Optical Characteristics T₄ = 25°C ± 3°C

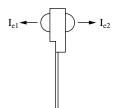
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 50 \text{ mA}$		1.3	1.5	V
Reverse current	I_R	$V_R = 3 V$			10	μΑ
Center radiant intensity *	Ie	$I_F = 50 \text{ mA}$	1.2			mW/sr
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 20 \text{ mA}$		940		nm
Spectral half band width	Δλ	$I_F = 20 \text{ mA}$		50		nm
Terminal capacitance	C_{t}	$V_R = 0 V, f = 1 MHz$		35		pF

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

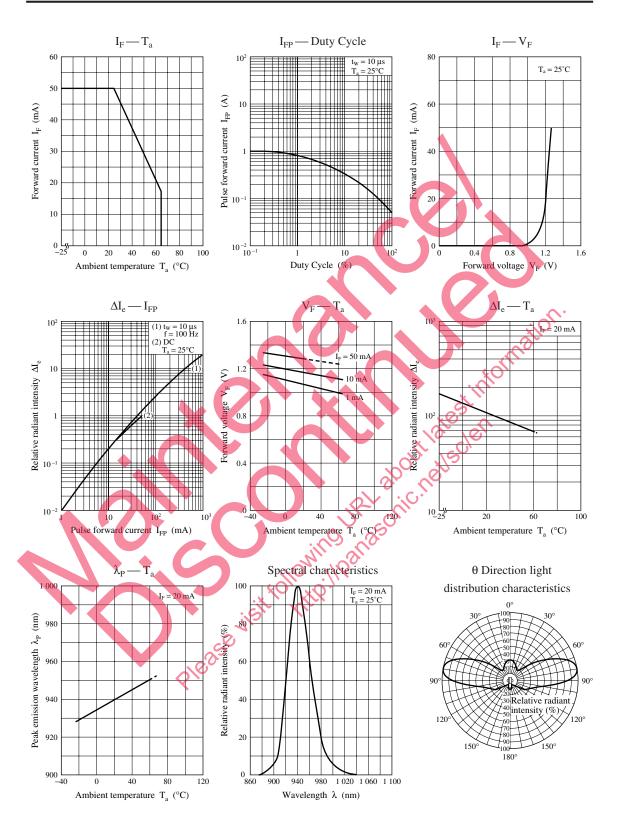
2. Cutoff frequency: 1 MHz

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

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.



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