

LNA2603F (LN155)

GaAs Infrared Light Emitting Diode

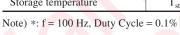
For optical control systems

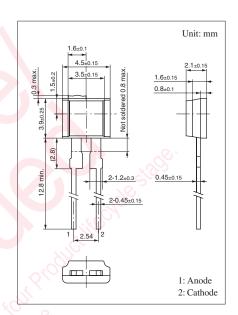
■ Features

- High-power output, high-efficiency: $P_O = 6 \text{ mW (typ.)}$
- Emitted light spectrum suited for silicon photodetectors
- Long lifetime, high reliability
- Thin side-view type package

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V_R	3	V	
Forward current	I_{F}	100	mA	
Pulse forward current *	I_{FP}	1.5	A	
Power dissipation	P_{D}	160	mW	
Operating ambient temperature	Topr	-25 to +85	°C	
Storage temperature	T_{stg}	-40 to +100	°C	





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

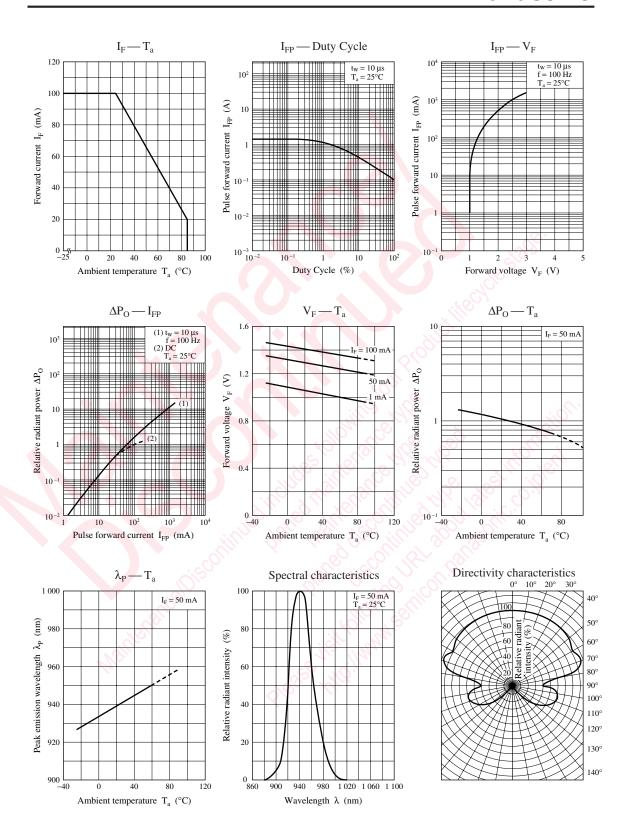
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_F	I _F = 100 mA		1.3	1.6	V
Reverse current	I_R	$V_R = 3 V$			10	μΑ
Radiant power *	Po	I _F = 50 mA	3.0	6.0		mW
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 50 \text{ mA}$		940		nm
Spectral half band width	Δλ	$I_F = 50 \text{ mA}$		50		nm
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		45		pF
Half-power angle	θ	The angle when the radiant power is halved		80		٥

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. *: A light detection element uses a silicon diode have proofread a load with a standard device.

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



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■ 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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