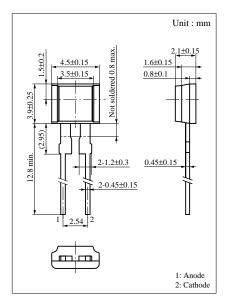
Panasonic

LNA2603F (LN155) GaAs Infrared Light Emitting Diode

For optical control systems

Features

- High-power output, high-efficiency : $P_0 = 6 \text{ mW}$ (typ.)
- Emitted light spectrum suited for silicon photodetectors : $\lambda_P = 940 \text{ nm} (typ.)$
- Long lifetime, high reliability
- Thin side-view type package



Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

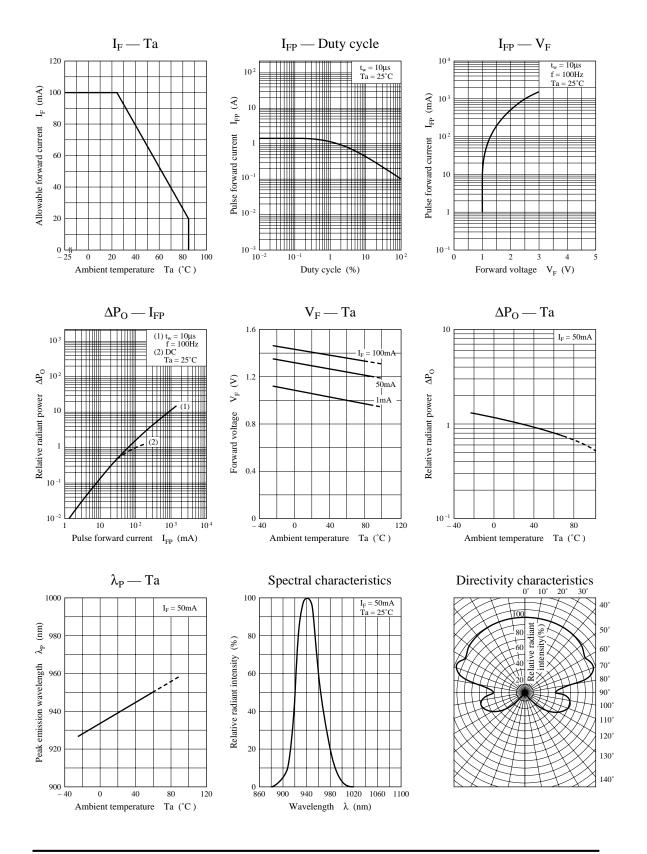
Parameter	Symbol	Ratings	Unit
Power dissipation	PD	160	mW
Forward current (DC)	I _F	100	mA
Pulse forward current	I _{FP} *	1.5	А
Reverse voltage (DC)	V _R	3	V
Operating ambient temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	- 40 to +100	°C
* $f = 100 Hz$ Duty cycle = 0.1 %			

f = 100 Hz, Duty cycle = 0.1 %

Parameter Symbol Conditions Unit min typ max 3 6 Radiant power Po $I_F = 50 mA$ mW Peak emission wavelength $I_F = 50 mA$ 940 $\lambda_{\rm P}$ nm Spectral half band width Δλ $I_F = 50 mA$ 50 nm Forward voltage (DC) V_F $I_{\rm F} = 100 {\rm mA}$ 1.3 1.6 V $V_R = 3V$ 10 Reverse current (DC) I_R μΑ Capacitance between pins C_t $V_R = 0V$, f = 1MHz45 pF Rise time 1 μs t_r $I_{FP} = 100 mA$ Fall time 1 μs $t_{\rm f}$ Half-power angle 80 θ The angle in which radiant intencity is 50% deg.

Electro-Optical Characteristics ($Ta = 25^{\circ}C$)

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



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▲ Caution for Safety



Gallium arsenide material (GaAs) is used in this product.

Therefore, do not burn, destroy, cut, crush, or chemically decompose the product, since gallium arsenide material in powder or vapor form is harmful to human health.

Observe the relevant laws and regulations when disposing of the products. Do not mix them with ordinary industrial waste or household refuse when disposing of GaAs-containing products.

Request for your special attention and precautions in using the technical information and semiconductors described in this material

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Even when the products are used within the guaranteed values, redundant design is recommended, so that such equipment may not violate relevant laws or regulations because of the function of our products.

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