

LNA2601L

GaAs Infrared Light Emitting Diode

For optical control systems

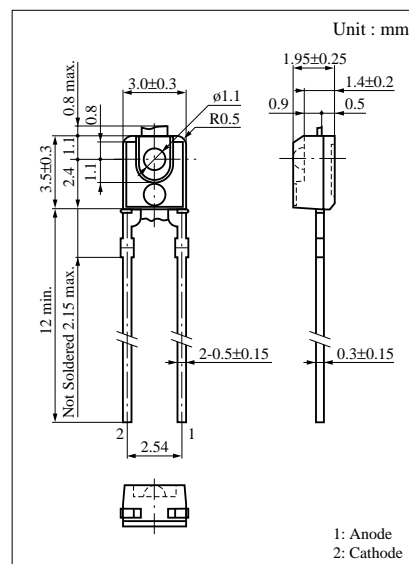
■ Features

- High-power output, high-efficiency
- Emitted light spectrum suited for silicon photodetectors
- Infrared light emission close to monochromatic light : $\lambda_p = 950$ nm
- Ultra-miniature, thin side-view type package

■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Ratings	Unit
Power dissipation	P_D	75	mW
Forward current (DC)	I_F	50	mA
Pulse forward current	I_{FP}^*	1	A
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 %



■ Electro-Optical Characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Radiant power	P_O	$I_F = 50\text{mA}$	1.5			mW
Peak emission wavelength	λ_p	$I_F = 50\text{mA}$		950		nm
Spectral half band width	$\Delta\lambda$	$I_F = 50\text{mA}$		50		nm
Forward voltage (DC)	V_F	$I_F = 50\text{mA}$			1.5	V
Reverse current (DC)	I_R	$V_R = 3\text{V}$			10	μA
Capacitance between pins	C_t	$V_R = 0\text{V}$, f = 1MHz		35		pF
Half-power angle	θ	The angle in which radiant intensity is 50%		20		deg.

