



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



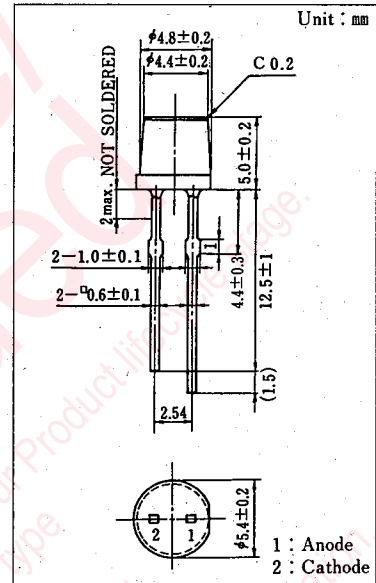
LN64

GaAs Infrared Light Emitting Diode

For Optical Control Systems

■ Features

- High-power output: $P_o=7\text{mW}$ (typ.)
- Suited for use with silicon photo detectors
- Good linearity (P_o vs I_F)
- Wide beam angle: $\theta=45$ deg. (typ.)
- Transparent epoxy package



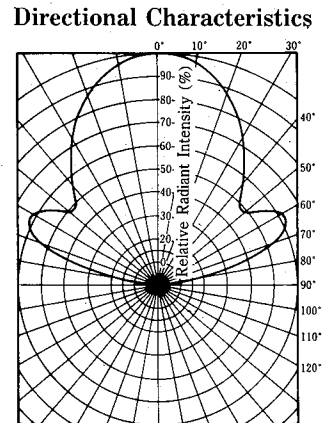
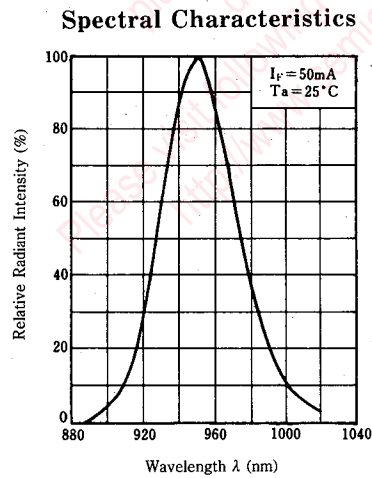
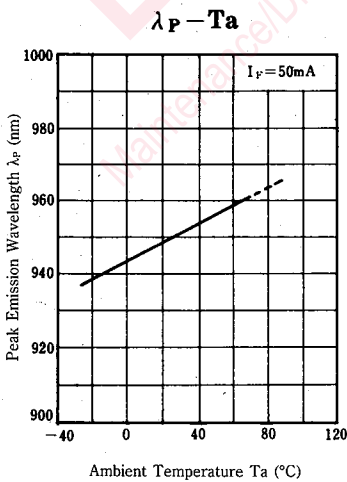
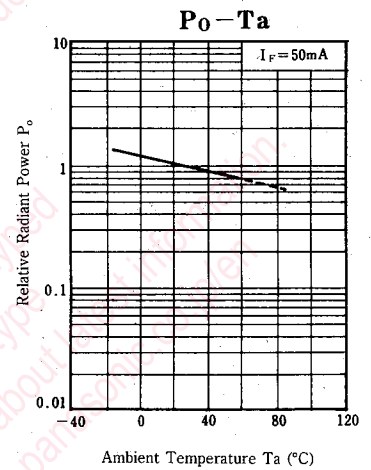
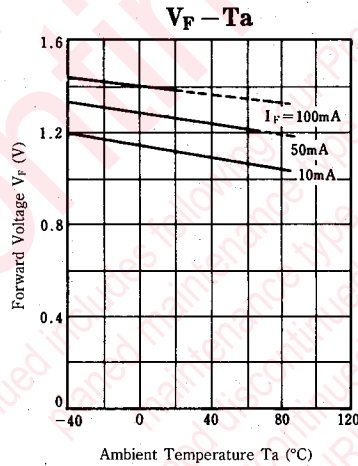
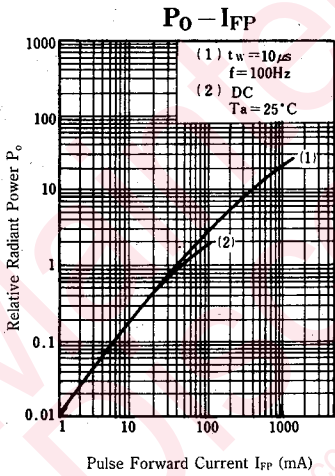
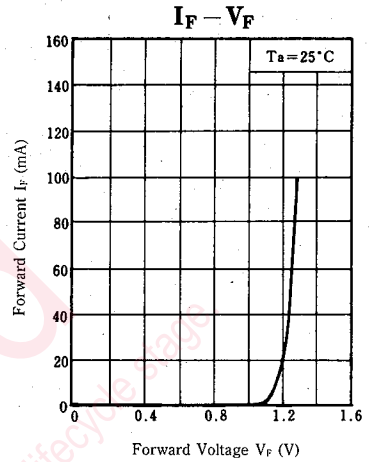
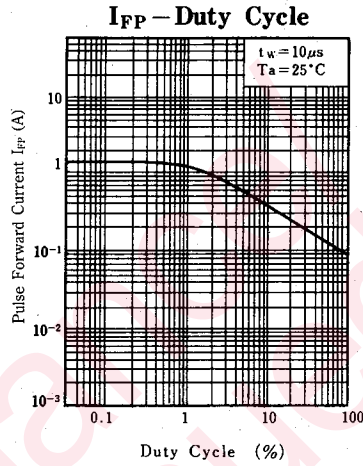
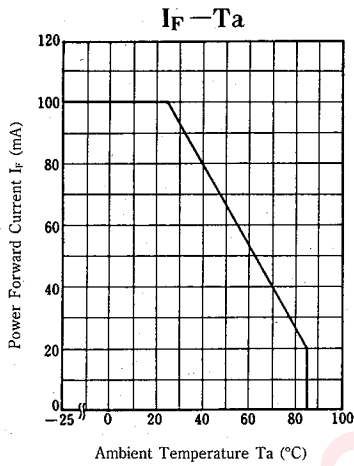
■ Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Power Dissipation	P_D	160	mW
Forward Current (DC)	I_F	100	mA
Pulse Forward Current	I_{FP}^*	1.5	A
Reverse Voltage (DC)	V_R	3	V
Operating Ambient Temperature	T_{opr}	$-25 \sim +85$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +100$	$^\circ\text{C}$

* $f=100\text{Hz}$, Duty Cycle=0.1%

■ Electro-Optical Characteristics ($T_a=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Optical Power Output	P_o	$I_F=50\text{mA}$	3.5	7		mW
Peak Emission Wavelength	λ_P	$I_F=50\text{mA}$		950		nm
Spectral Band Width	$\Delta\lambda$	$I_F=50\text{mA}$		50		nm
Forward Voltage (DC)	V_F	$I_F=100\text{mA}$		1.3	1.6	V
Reverse Current (DC)	I_R	$V_R=3\text{V}$			10	μA
Capacitance between Terminals	C_t	$V_R=0$, $f=1\text{MHz}$		35		pF
Beam Half Angle	θ	Measured from the optical axis to the half power point		45		deg.



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