imall

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



LN55 GaAs Infrared Light Emitting Diode

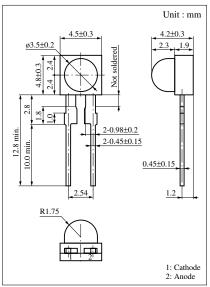
For optical control systems

Features

- High-power output, high-efficiency : $P_0 = 3.5 \text{ mW}$ (typ.)
- Suited for use with silicon photodetectors
- Infrared light emission close to monochromatic light : $\lambda_P = 950$ nm (typ.)
- High-speed modulation capability

Absolute Maximum Ratings (Ta = 25°C)

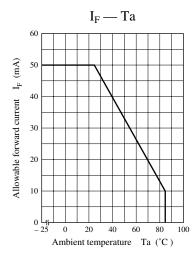
Parameter	Symbol	Ratings	Unit	
Power dissipation	P _D	75	mW	
Forward current (DC)	I _F	50	mA	
Pulse forward current	I_{FP}^{*}	1	А	
Reverse voltage (DC)	V _R	3	V	
Operating ambient temperature	T_{opr} -25 to +85		°C	
Storage temperature	T _{stg}	-30 to +100	°C	

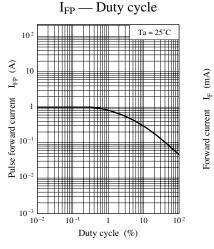


* f = 100 Hz, Duty cycle = 0.1 %

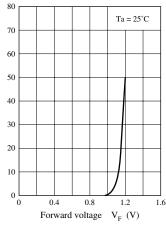
Electro-Optical Characteristics ($Ta = 25^{\circ}C$)

Parameter	Symbol	Conditions	min	typ	max	Unit
Radiant power	Po	$I_F = 50 mA$	1.8	3.5		mW
Peak emission wavelength	$\lambda_{\rm P}$	$I_F = 50 mA$		950		nm
Spectral half band width	Δλ	$I_F = 50 mA$		50		nm
Forward voltage (DC)	V _F	$I_F = 50 mA$			1.5	V
Reverse current (DC)	I _R	$V_R = 3V$			10	μA
Capacitance between pins	Ct	$V_R = 0V$, $f = 1MHz$		50		pF
Half-power angle	θ	The angle in which radiant intencity is 50%		35		deg.

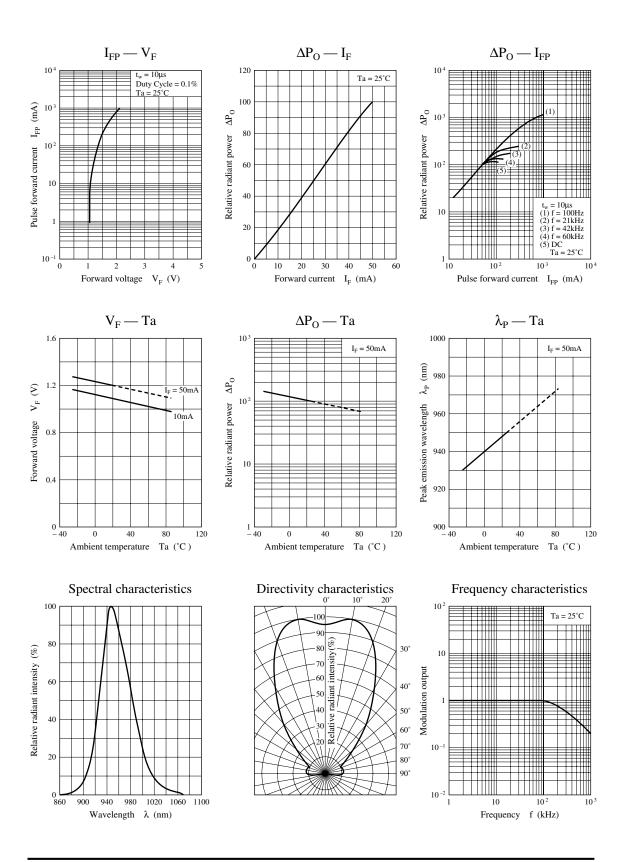








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Therefore, do not burn, destroy, cut, crush, or chemically decompose the product, since gallium arsenide material in powder or vapor form is harmful to human health.

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- (3) The products described in this material are intended to be used for standard applications or general electronic equipment (such as office equipment, communications equipment, measuring instruments and household appliances).

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