



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!



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LN66F

GaAs Infrared Light Emitting Diode

For optical control systems

■ Features

- High-power output, high-efficiency: $I_c = 13.0$ mW/sr (min.)
- Emitted light spectrum suited for silicon photodetectors
- Narrow directivity: $\theta = 15^\circ$ (typ.)
- Transparent epoxy resin package

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

Parameter	Symbol	Rating	Unit
Power dissipation	P_D	75	mW
Forward current	I_F	50	mA
Pulse forward current *	I_{FP}	1.5	A
Reverse voltage	V_R	3	V
Operating ambient temperature	T_{opr}	-25 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +100	$^\circ\text{C}$

Note) *: $f = 100$ Hz, Duty cycle $\geq 0.1\%$

■ Electro-Optical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

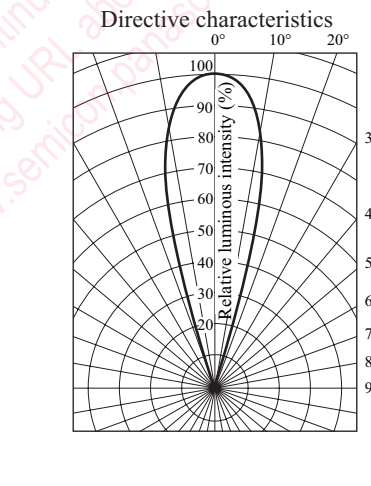
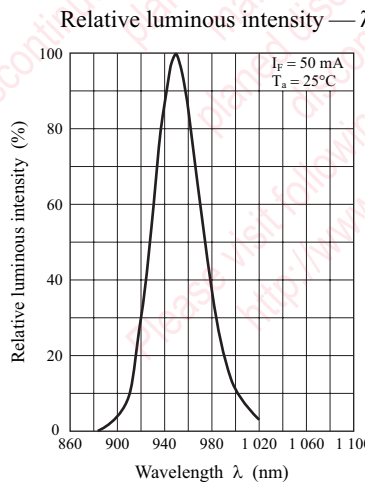
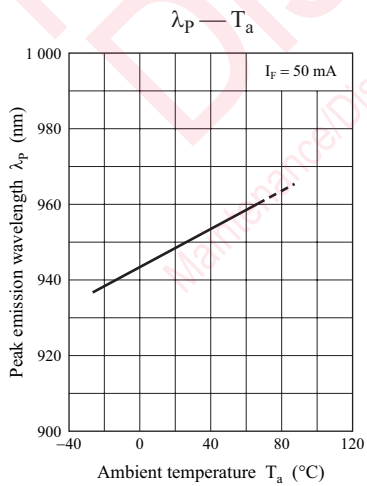
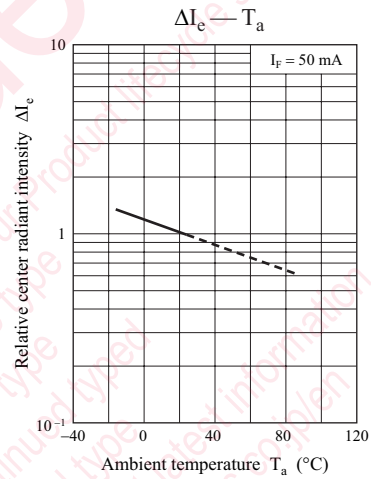
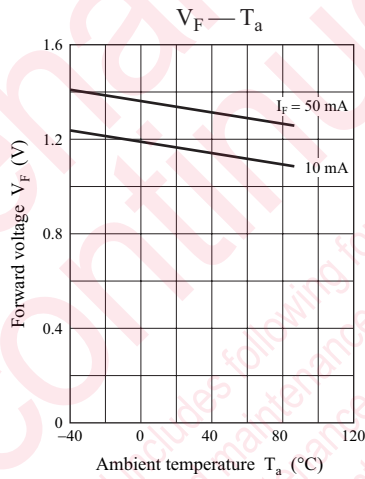
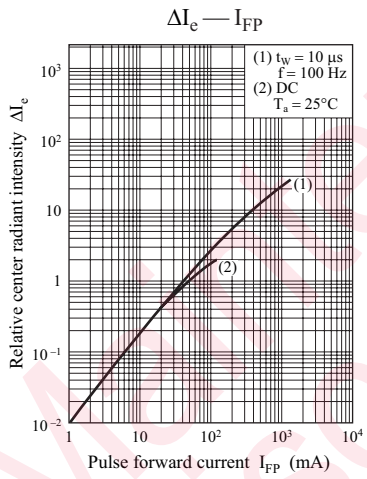
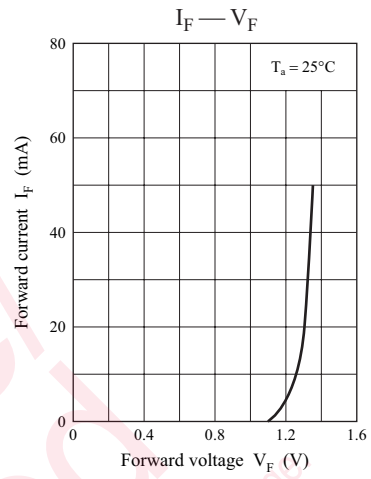
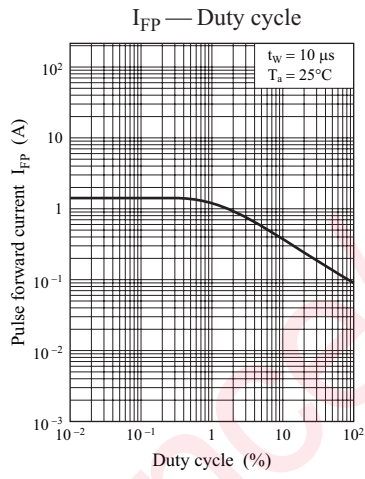
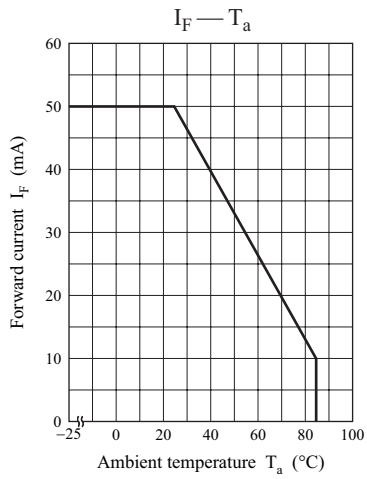
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Center radiant intensity	I_c	$I_F = 50$ mA	13.0			mW/sr
Reverse current	I_R	$V_R = 3$ V			10	μA
Forward voltage *	V_F	$I_F = 50$ mA		1.35	1.5	V
Pulse forward current	V_{FP}	$I_{FP} = 1.0$ A			3.0	V
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		20		pF
Peak emission wavelength	λ_p	$I_F = 50$ mA		950		nm
Spectral half band width	$\Delta\lambda$	$I_F = 50$ mA		50		nm
Half-power angle	θ	The angle when the center radiant intensity is halved.		15		$^\circ$

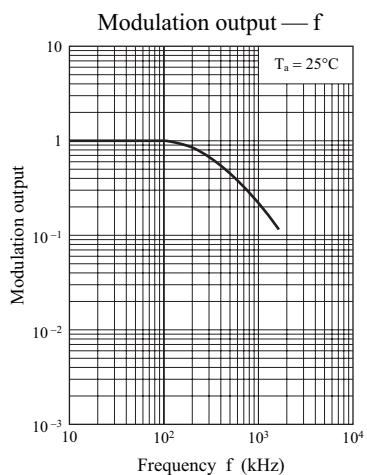
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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. *: $f = 100$ Hz, Duty cycle $\geq 0.1\%$

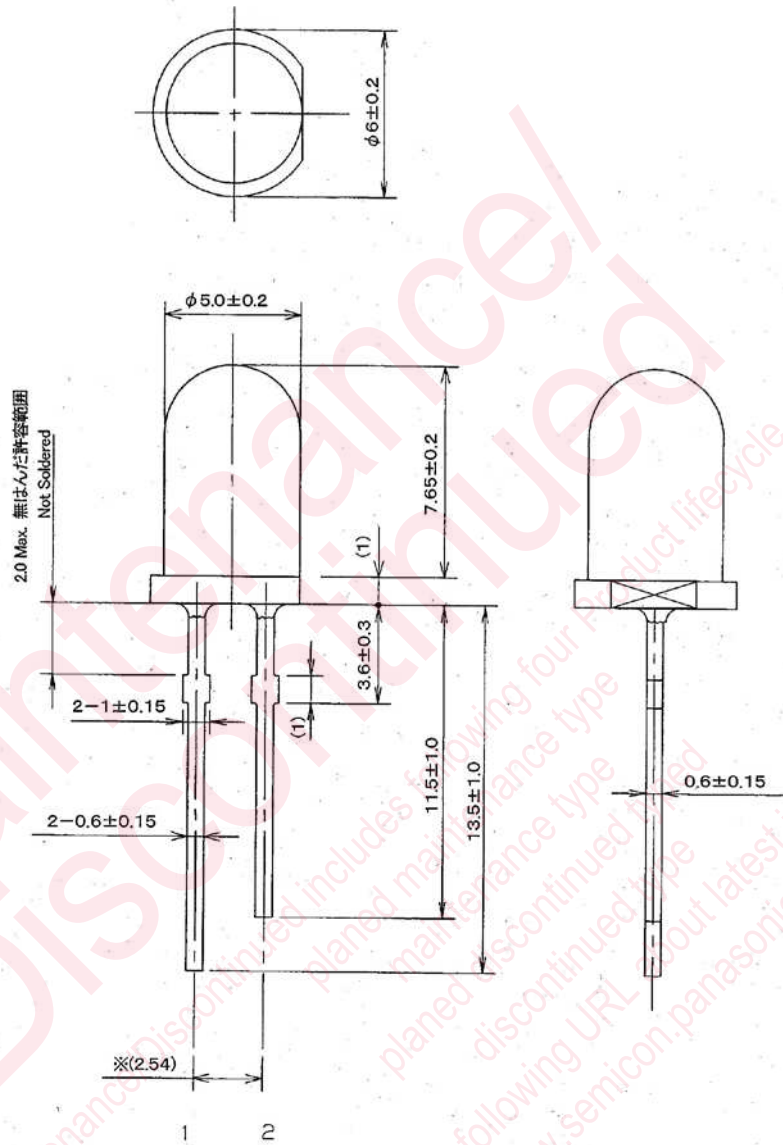




Maintenance/Discontinued includes following four Product lifecycle stage.
planned maintenance type
maintenance type
planned discontinued type
discontinued type
Please visit following URL about latest information.
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■ Package (Unit: mm)

LEZLTN2S0004



- Pin name
- 1: Anode
- 2: Cathode

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