

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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LN66

GaAs Infrared Light Emitting Diode

For optical control systems

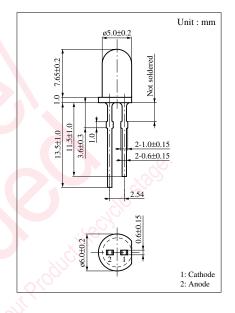
Features

- High-power output, high-efficiency : $P_O = 8 \text{ mW (typ.)}$
- Emitted light spectrum suited for silicon photodetectors
- Good radiant power output linearity with respect to input current
- Wide directivity : $\theta = 25 \text{ deg. (typ.)}$
- Transparent epoxy resin package

■ Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
P_{D}	160	mW
I_{F}	100	mA
${ m I_{FP}}^*$	1.5	Α
V_R	3	V
T _{opr}	-25 to +85	°C
T_{stg}	-40 to +100	°C
	$\begin{array}{c} P_D \\ I_F \\ I_{FP}^* \\ V_R \\ T_{opr} \end{array}$	$\begin{array}{ccc} P_{D} & 160 \\ I_{F} & 100 \\ I_{FP}^{*} & 1.5 \\ V_{R} & 3 \\ T_{opr} & -25 \text{ to } +85 \\ \end{array}$

^{*} f = 100 Hz, Duty cycle = 0.1 %



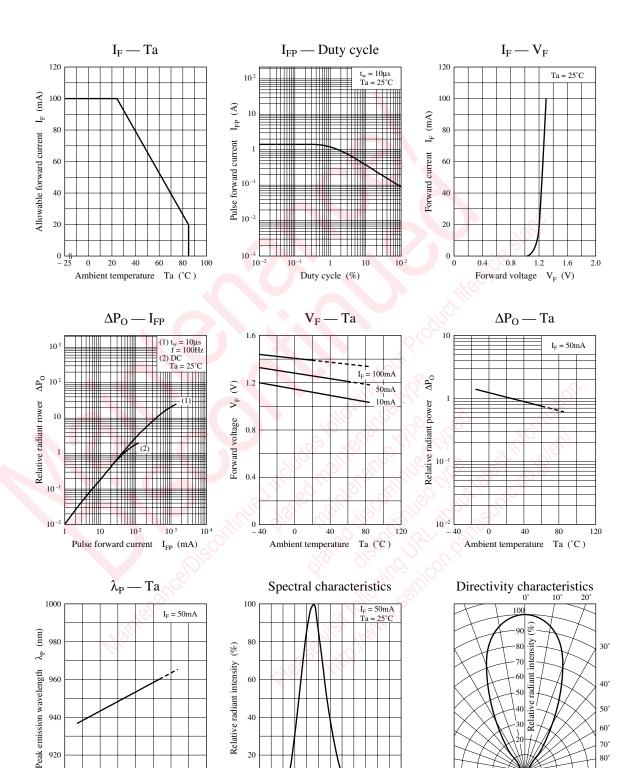
■ Electro-Optical Characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Radiant power	P_{O}^{*}	$I_F = 50 \text{mA}$	5	8		mW
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 50 \text{mA}$		950		nm
Spectral half band width	Δλ	$I_F = 50 \text{mA}$		50		nm
Forward voltage (DC)	V_F	$I_F = 100 \text{mA}$		1.3	1.6	V
Reverse current (DC)	I_R	$V_R = 3V$			10	μΑ
Capacitance between pins	Ct	$V_R = 0V$, $f = 1MHz$		35		pF
Half-power angle	θ	The angle in which radiant intencity is 50%		25		deg.

* Po Classifications

Class	R	S		
$P_{O}(mW)$	5 to 8	>7		

80° 90°



920

900 └─ - 40

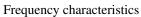
Wavelength λ (nm)

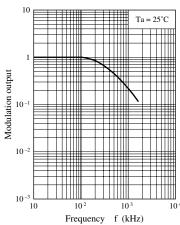
940 980 1020 1060 1100

20

120

Ambient temperature Ta (°C)







■ This product contains Gallium Arsenide (GaAs).

GaAs powder and vapor are hazardous to human health if inhaled or ingested. Do not burn, destroy, cut, cleave off, or chemically dissolve the product. Follow related laws and ordinances for disposal. The product should be excluded from general industrial waste or household garbage.

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