

LN66(NC)

GaAs Infrared Light Emitting Diode

For optical control systems

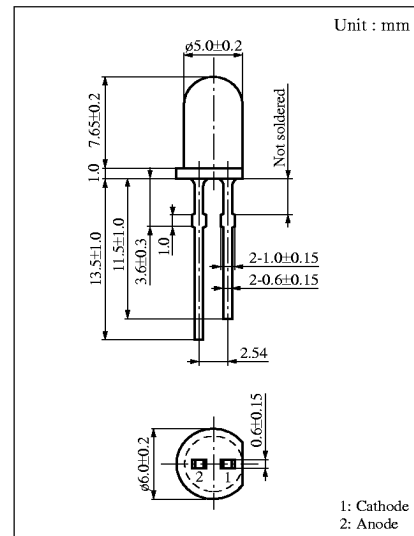
■ Features

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

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

Parameter	Symbol	Ratings	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 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +100	$^\circ\text{C}$

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



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

Parameter	Symbol	Conditions	min	typ	max	Unit
Radiant power	P_O^*	$I_F = 50 \text{ mA}$	5	8		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	$I_F = 100 \text{ mA}$		1.3	1.6	V
Reverse current (DC)	I_R	$V_R = 3 \text{ V}$			10	μA
Capacitance between pins	C_t	$V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$		35		pF
Half-power angle	θ	The angle in which radiant intensity is 50%		25		deg.

* P_O Classifications

Class	R	S
P_O (mW)	5 to 8	>7

Note) Characteristic chart is referred to LN66.