

The BL05 - 1101 is a LED of 650nm wavelength using four elements (AlGaNp). Our original LED processing technology made it possible to increase the electric current density at the emission point. The luminous strength of single light source per unit surface is now more than ten times higher than before.

FEATURES

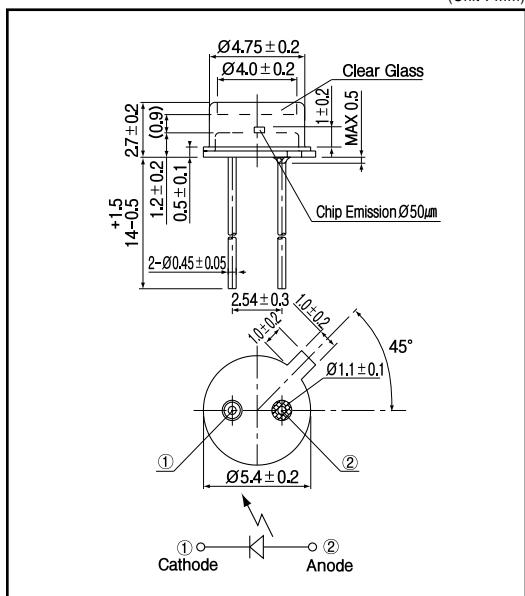
- High brightness
- The Optical axis match is easy because of red luminance.
- Optical design is easy because of the point light of $\phi 50\mu m$

APPLICATIONS

- Source of light for optical switch , optical fiber , and scanner
- Source of light for optical sensor parallel light
- Source of light for various , precise measurements

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	3	V
Forward current	I _F	20	mA
Power dissipation	P _D	50	mW
Pulse forward current ^①	I _{FP}	150	mA
Operating temp.	Toopr.	- 30 + 85	
Storage temp.	Tstg.	- 40 + 100	
Soldering temp. ^②	Tsol.	260	

^①1. pulse width : tw 10 sec.period : T=1msec.^②2. For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	V _F	I _F =20mA		2.0	3.0	V
Reverse current	I _R	V _R =3V			10	µA
Radiant intensity	P _O (W)	I _F =20mA		0.2		mW
Peak emission wavelength	λ	I _F =20mA		650		nm
Spectral bandwidth 50%		I _F =20mA		30		nm
Half angle		I _F =20mA		± 60		deg.

Pin-Point LED(AlGaNp)

BL05 - 1101

