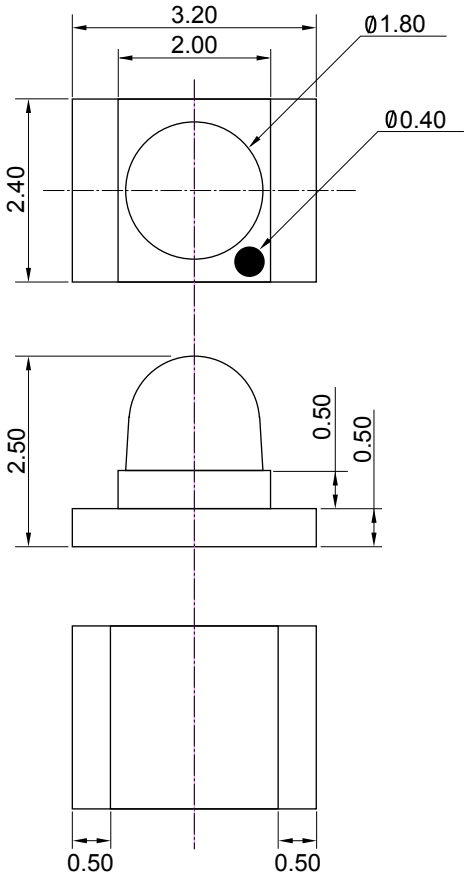
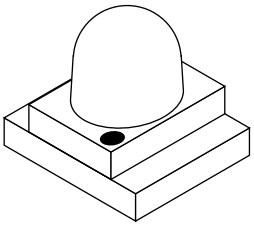
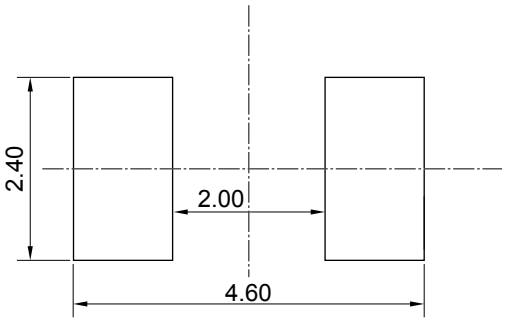
LightBo

PACKAGE DIMENSION INTERNAL CIRCUIT DIAGRAM

LB113BHC







RECOMMEND PAN LAYOUT

NOTES:
1.All dimensions are in millimeters.
2.Tolerances are +/-0.1mm unless otherwise noted.

Absolute maximum ratings(Ta=25℃):

Parameter	Symbol	Value	Unit
Forward current	If	30	mA
Reverse voltage	Vr	5	V
Power dissipation	Pd	120	mW
Operating temperature range	Top	.-20 ~ +80	℃
Storage temperature range	Tstg	.-20 ~ +80	℃
Peak pulsing current (1/8 duty f=1kHz)	Ifg	125	mA

Item	Materials
Resin(mold)	Epoxy
Bonding Wire	25 um Au
Lens color	water transparent
Printed circuot board	BT (white)
Dice	GaInN
Emitted color	Blue

Electro - optecal characteristics(Ta=25℃)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Wavelength at peak emission	If=20mA	peak	460	465	470	nm
Spectral half bandwidth	If=20mA			40		nm
Dominant wavelength	If=20mA	dom		470		nm
Forward voltage	If=20mA	Vf		3.5	4	V
Luminous intensity *	If=20mA	Iv	600			mcd
Viewing angle at 50% Iv	If=10mA	2 1/2		15		Deg
Reverse current	Vr=5V	Ir			10	uA

*Note:Luminous intensity tolerance is +/- 10%.