

LL120TG5-366

Hi-Eff Green

2.9mm, Domed, 4.5mm Height
100° viewing angle

DWG BY:
BL / GP
09-12-06

CHK BY:
PL
09-12-06

QA:
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09-__-06

MFG:
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__-__-__

REVISION LTR: -
09-12-06

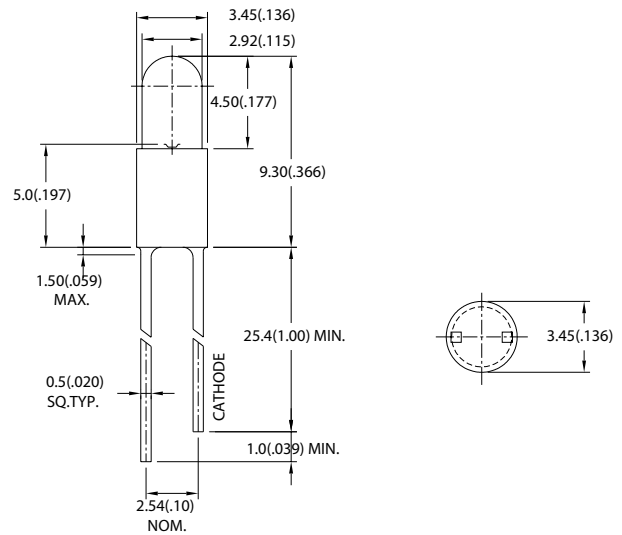
● Features:

1. Chip material: GaP/GaP
2. Emitted color : Hi-Eff Green
3. Lens Appearance : Green Diffused
4. General purpose leads.
5. Low power consumption.
6. Compatible/ low current requirements
7. Reliable and rugged.
8. This product is RoHS compliant.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package dimensions:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

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

Parameter	Symbol	Rating	Unit
Power Dissipation	P_d	80	mW
Forward Current	I_F	30	mA
Peak Forward Current* ¹	I_{FP}	150	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	$-40^\circ\text{C} \sim 80^\circ\text{C}$	
Storage Temperature	T_{stg}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Soldering Temperature	T_{sol}	260°C (for 5 seconds)	

*¹Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

● Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20mA$	-	2.2	2.6	V
Luminous Intensity	I_v	$I_F=20mA$	-	22	-	mcd
Reverse Current	I_R	$V_R=5V$	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20mA$	-	565	-	nm
Dominant Wave Length	λ_d	$I_F=20mA$	-	569	-	nm
Spectral Line Half-width	$\Delta \lambda$	$I_F=20mA$	-	29	-	nm
Viewing Angle	$2 \theta_{1/2}$	$I_F=20mA$	-	100	-	deg
Chromaticity Coordinates	X	$I_F=20mA$	-	0.44	-	
	Y		-	0.56	-	

● Typical Electro-Optical Characteristics Curves

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

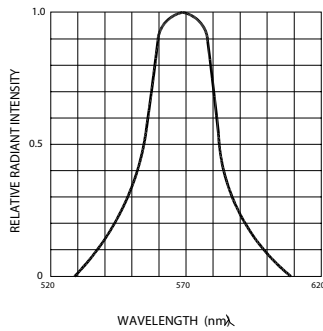


Fig.2 FORWARD CURRENT DERATING CURVE

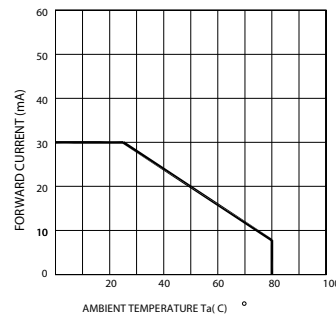


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

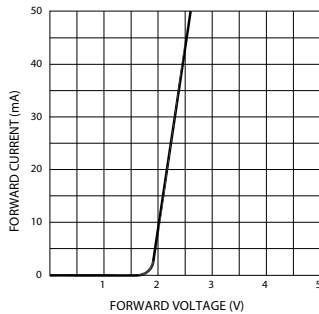


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

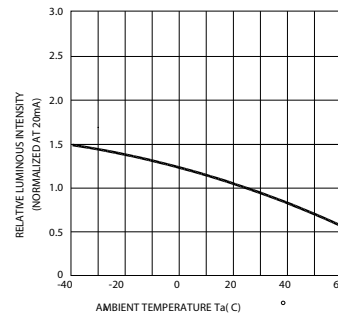
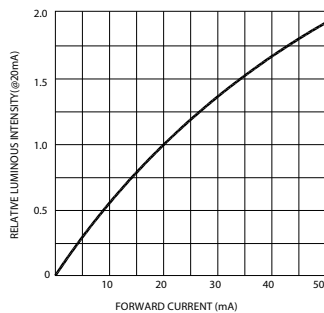
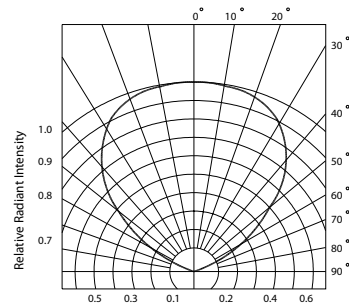


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



RADIATION DIAGRAM



● Bin Limits

1. Intensity Bin Limits (At $I_F = 20\text{mA}$)

Bin Code	Min. (mcd)	Max. (mcd)
K	11	21
L	16	32
M	24	48
:	:	:

● Bin : x

