

LL120TY5-515

Super Yellow

2.9mm, Long-Body 13mm
100° viewing angle

DWG BY:
BL / GP
01-03-11

CHK BY:
PL
01-04-11

REVISION LTR: -
01-03-11

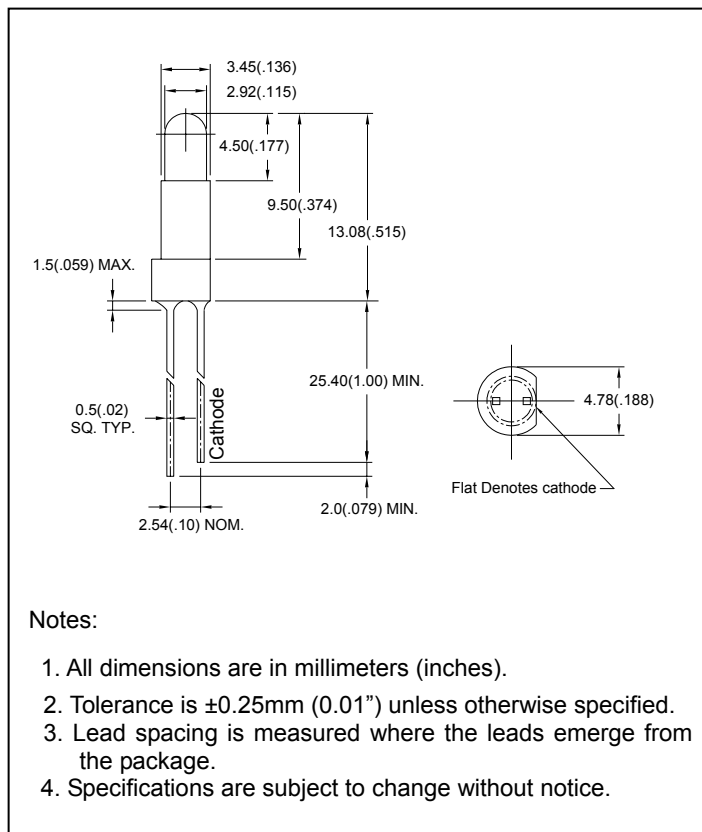
● **Features:**

1. Chip material: GaAsP/GaP
2. Emitted color : Super Yellow
3. Lens Appearance : Yellow 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:**



● **Absolute Maximum Ratings(Ta=25°C)**

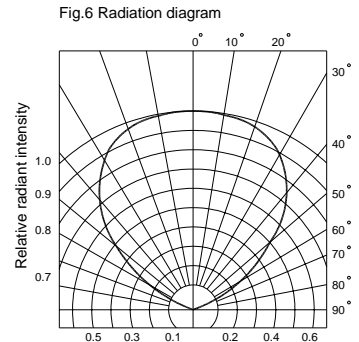
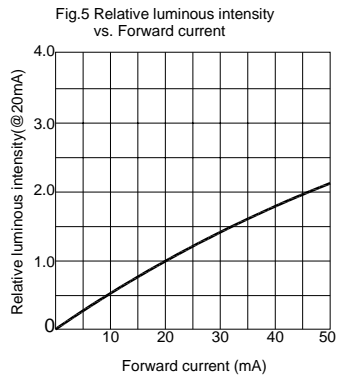
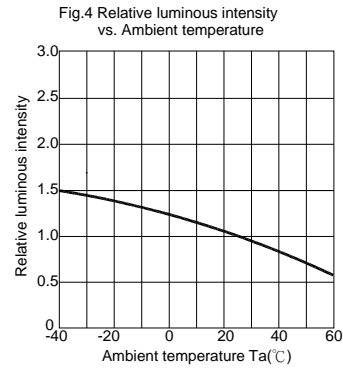
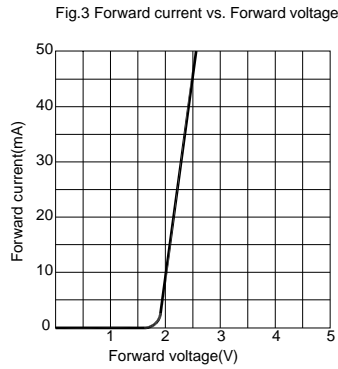
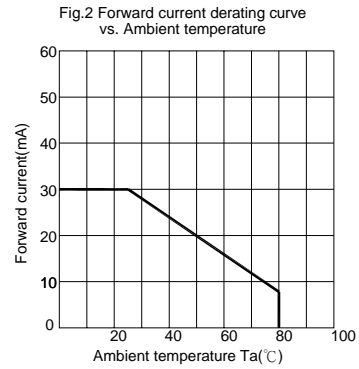
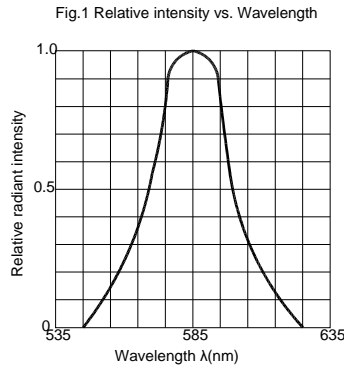
Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	80	mW
Forward Current	I _F	30	mA
Peak Forward Current* ¹	I _{FP}	150	mA
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-40°C~85°C	
Storage Temperature	Tstg	-40°C~100°C	
Soldering Temperature	Tsol	260°C max (for 5 seconds)	
Hand Soldering Temperature	Tsol	350? max(for 3 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	$I_F=20mA$	-	2.1	2.6	V
Luminous Intensity	I_v	$I_F=20mA$	-	3.5	-	mcd
Reverse Current	I_R	$V_R=5V$	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20mA$	-	586	-	nm
Dominant Wave Length	λ_d	$I_F=20mA$	-	587	-	nm
Spectral Line Half-width	$\Delta \lambda$	$I_F=20mA$	-	36	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	-	100	-	deg
Radiant Intensity		$I_F=20mA$	-	7.2	-	$\mu W/sr$
Chromaticity Coordinates	X	$I_F=20mA$	-	0.56	-	
	Y		-	0.43	-	

● **Typical Electro-Optical Characteristics Curves**



● **DIP soldering (Wave Soldering)**

Preheating : 120°C, within 120~180 sec.

Operation heating : 255°C ±5°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching).

