

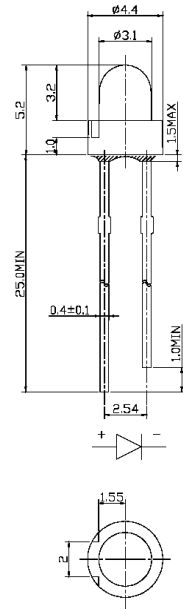
**LC307PYO1-30Q-A**

**Features**

Lead Free

**Applications**

Advertising Signs  
Indicators



**Maximum Ratings (Ta=25°C)**

Characteristic	Symbol	Max.	Unit
Forward Current	I <sub>F</sub>	50	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	125.00	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +95	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature	T <sub>sol</sub>	260	°C
Soldering Time	-	for 3 sec. max	-

- NOTES: 1. ALL DIMENSIONS ARE IN mm TOLERANCE IS: ±0.25mm UNLESS OTHERWISE NOTED.  
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.5mm DOWN THE LEADS.  
3. BURR AROUND BOTTOM OF EPOXY MAY BE 0.5 mm MAX.

**Opto-Electrical Characteristics (Ta=25°C)**

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	-	2.00	2.50	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	µA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA	770.00	1600.00	-	mcd
Viewing Angle	2θ <sup>1/2</sup>	-	-	30°	-	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =20mA	-	612	-	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	-	605	-	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =20mA	-	15	-	nm

LC307PYO1-30Q-A Graphs

**Graphs**

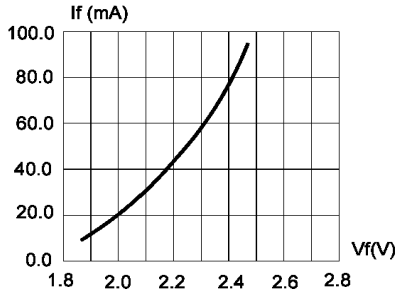


FIG. 1 FORWARD CURRENT VS. FORWARD VOLTAGE.

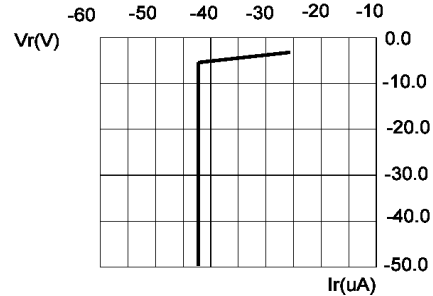


FIG. 2 REVERSE CURRENT VS. REVERSE VOLTAGE.

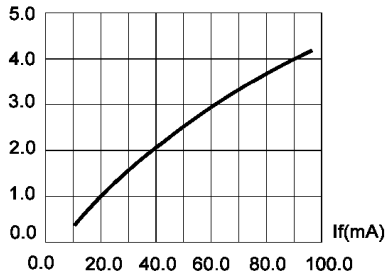


FIG. 3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

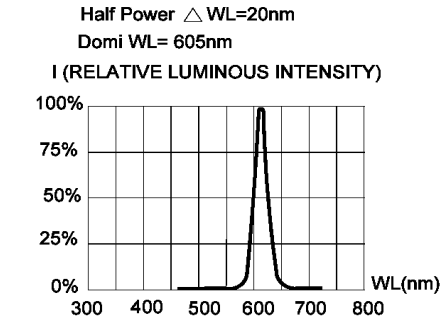


FIG. 4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

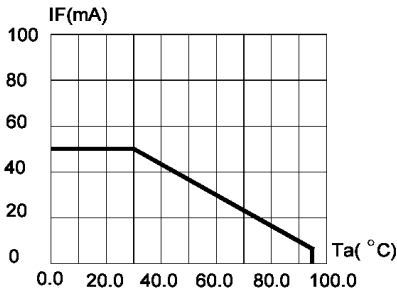


FIG. 5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105°C)

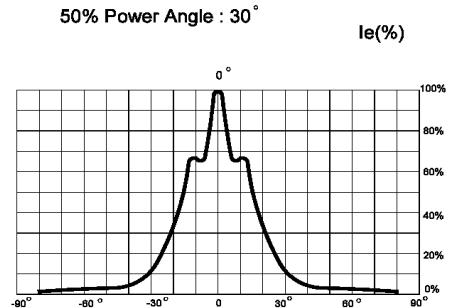


FIG. 6 FAR FIELD PATTERN