

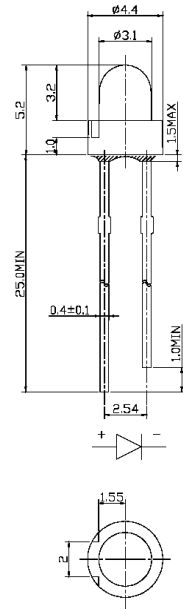
LC307PYO1-30Q-A

Features

Lead Free

Applications

Advertising Signs
Indicators



- 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.

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	50	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	125.00	mW
Operating Temperature	T _{opr}	-40 ~ +95	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	T _{sol}	260	°C
Soldering Time	-	for 3 sec. max	-

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =20mA	-	2.00	2.50	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Luminous Intensity	I _v	I _F =20mA	770.00	1600.00	-	mcd
Viewing Angle	2θ ^{1/2}	-	-	30°	-	deg.
Peak Wavelength	λ _p	I _F =20mA	-	612	-	nm
Dominant Wavelength	λ _d	I _F =20mA	-	605	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	-	15	-	nm

LC307PYO1-30Q-A Graphs

Graphs

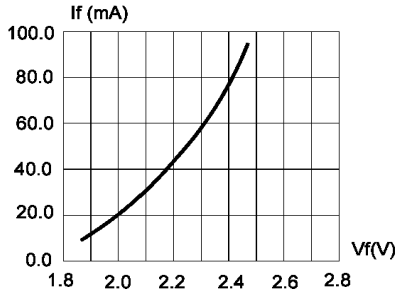


FIG. 1 FORWARD CURRENT VS. FORWARD VOLTAGE.

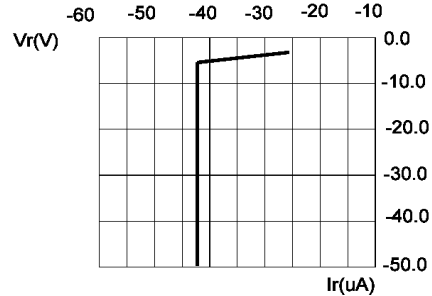


FIG. 2 REVERSE CURRENT VS. REVERSE VOLTAGE.

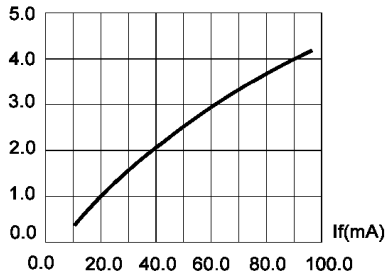


FIG. 3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

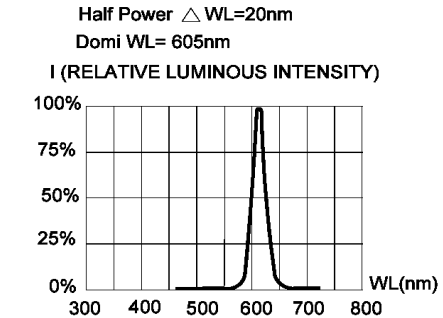


FIG. 4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

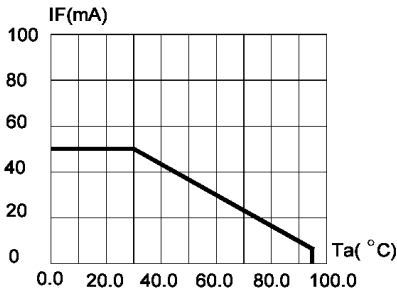


FIG. 5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105°C)

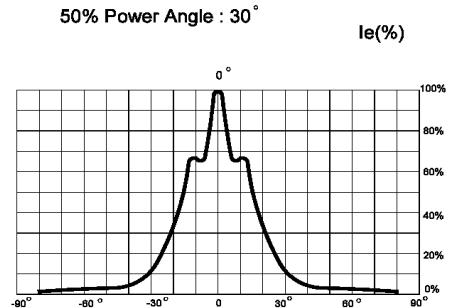


FIG. 6 FAR FIELD PATTERN