

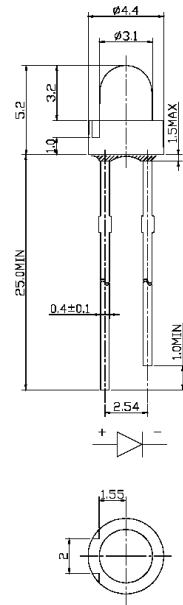
LC307THR1-30Q-A

Features

Lead Free

Applications

Advertising Signs
Indicators



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	130.00	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	-

- 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 _F	I _F =20mA	-	2.30	2.60	V
Reverse Current	I _R	V _R =5V	-	-	100	µA
Luminous Intensity	I _v	I _F =20mA	1100.00	2000.00	-	mcd
Viewing Angle	2θ ^{1/2}	-	-	40°	-	deg.
Peak Wavelength	λ _p	I _F =20mA	-	639	-	nm
Dominant Wavelength	λ _d	I _F =20mA	-	628	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	-	23	-	nm

LC307THR1-30Q-A Graphs

Graphs

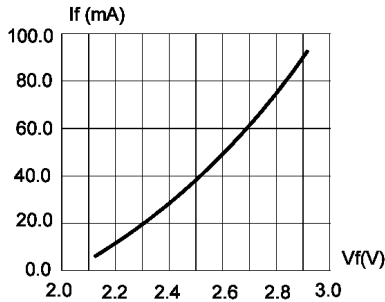


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

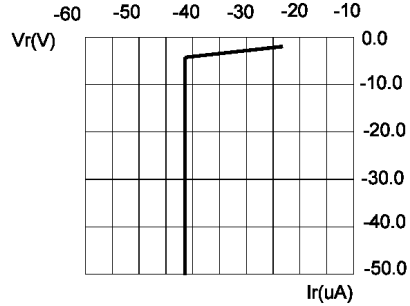


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

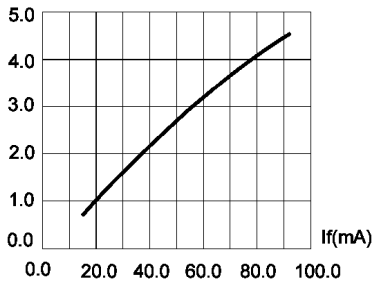


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

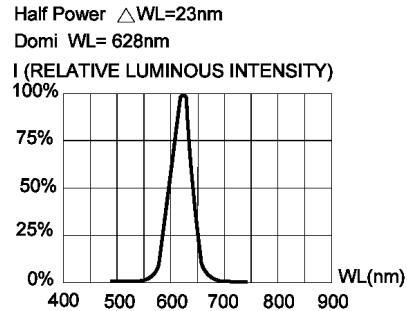


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

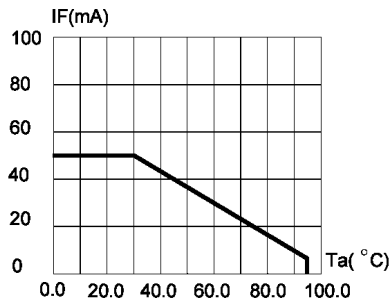


FIG.5 MAXIMUM FORWARD DC CURRENT VS. AMBIENT TEMPERATURE (Tjmax=105°C)

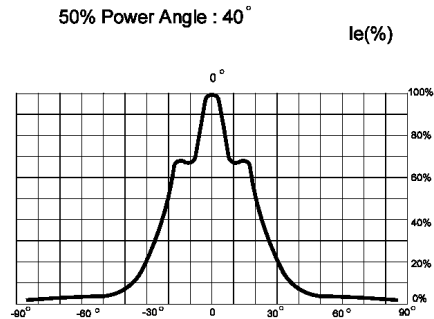


FIG.6 FAR FIELD PATTERN