COTCO

Ultra Bright Yellow 5mm LED

LC503AYL2−30Q−A

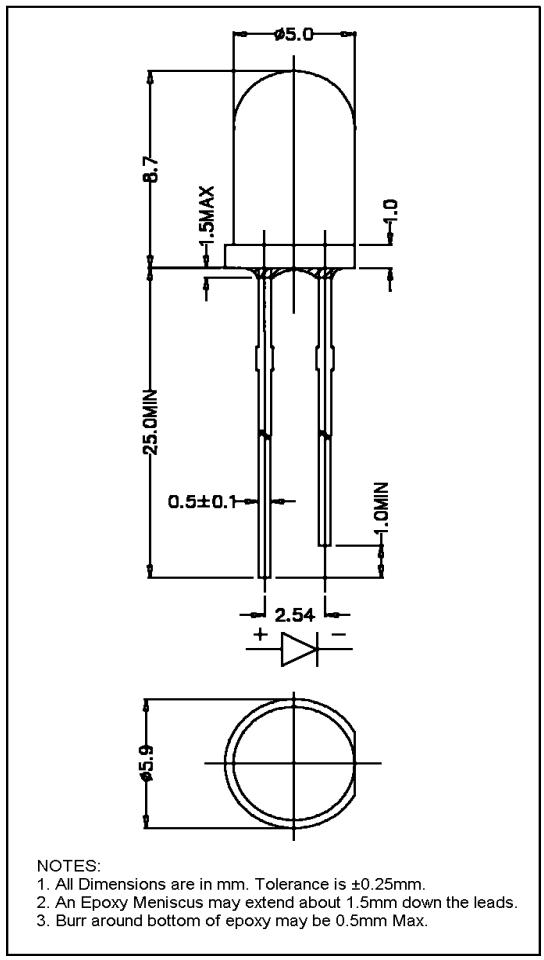
ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

Features

5mm Package
High Optical Power
High Luminous Intensity
Slightly Diffused Lens
All Plastic Mold Type
LEAD FREE

Applications

Outdoor Message Centers
VMS
Automotive Interior Lighting
Traffic Signals
Pedestrian Signals
Decorative Lighting



NOTES:
1. All Dimensions are in mm. Tolerance is ±0.25mm.
2. An Epoxy Meniscus may extend about 1.5mm down the leads.
3. Burr around bottom of epoxy may be 0.5mm 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	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	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	−	2.10	2.60	V
Reverse Current	I_R	V_R=5V	−	−	100	μA
Luminous Intensity	I_V	I_F=20mA	3000.00	4500.00	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	30°	−	deg.
Peak Wavelength	λp	I_F=20mA	−	594	−	nm
Dominant Wavelength	λd	I_F=20mA	−	591	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	20	−	nm

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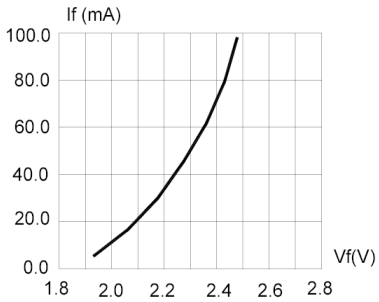

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

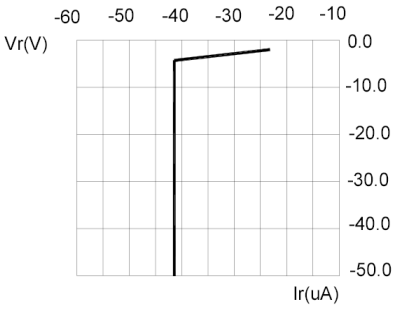

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

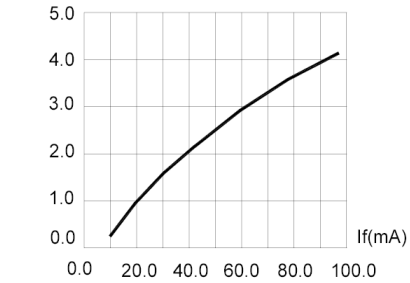

FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

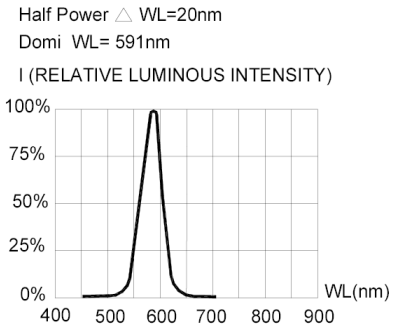

FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

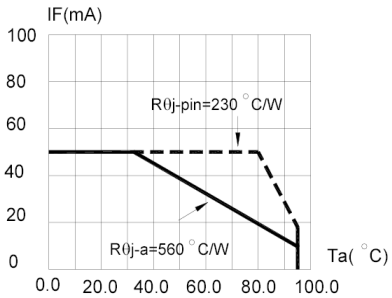

FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105 °C)

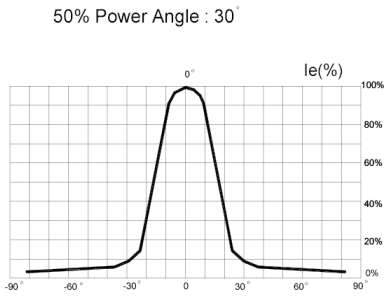

FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area (0.18 X 0.18inch^2)
2. Height above nominal seating plane in inches(0.3inch)

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