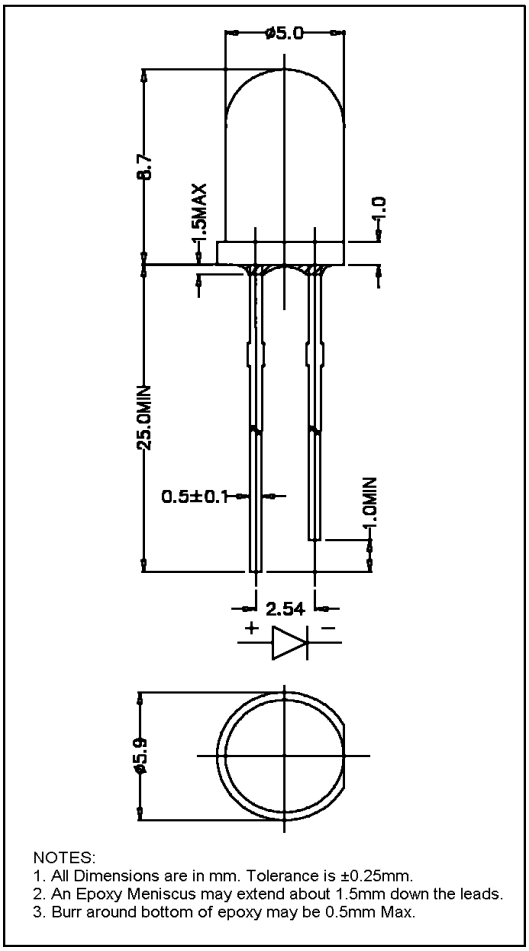
COTCO

5mm Blue−Green InGaN LED

LC503TBG1−30H−A



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.

Features

5mm Package
High Optical Power
High Luminous Intensity
Water Clear Lens
All Plastic Mold Type
Lead Free

Applications

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

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	25	mA
Reverse Voltage	V_R	5V	V
Power Dissipation	P_D	100.00	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	−	3.40	4.00	V
Reverse Current	I_R	V_R=5V	−	−	100	μA
Luminous Intensity	I_V	I_F=20mA	4180.00	7000.00	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	30°	−	deg.
Peak Wavelength	λp	I_F=20mA	−	502	−	nm
Dominant Wavelength	λd	I_F=20mA	−	505	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	38	−	nm

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LC503TBG1−30H−A Graphs

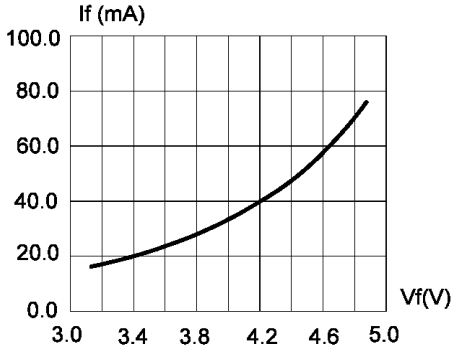

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

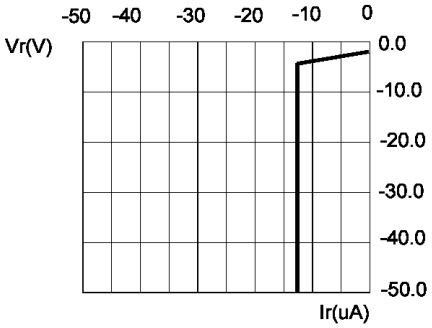

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

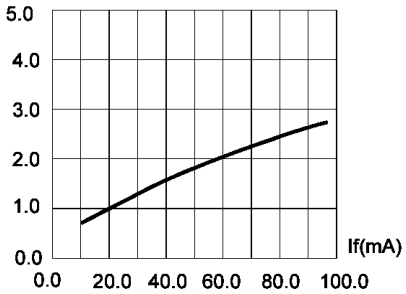

FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

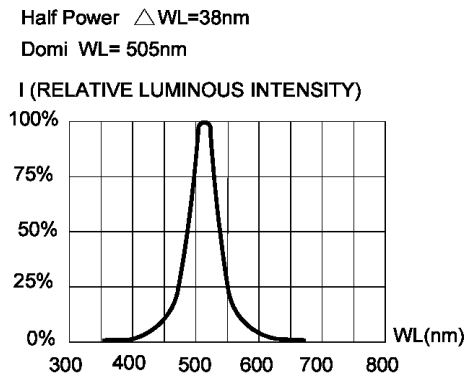

FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

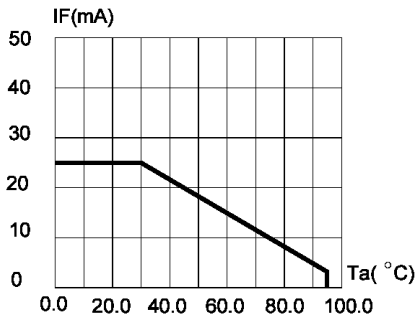

FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105° C)

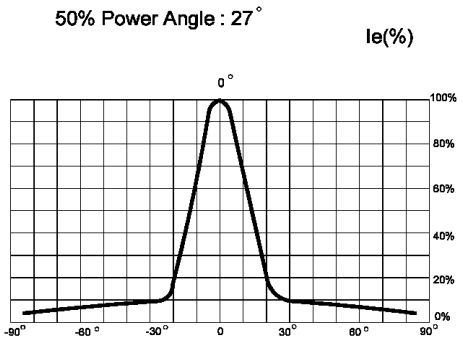

FIG.6 FAR FIELD PATTERN

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