



COTCO LUMINANT DEVICE (HUIZHOU) LTD

Part #: LC369MBL1-15Q

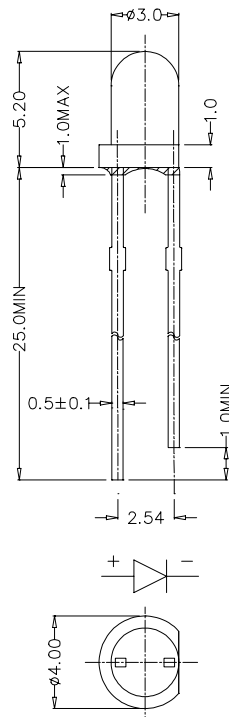
Product Description: Blue 15° 3mm LED lamp with water transparent lens

Resin: Epoxy

Lens Color: Water Transparent

Lead Frame: Ag Plating Iron Alloy

Dice: InGaN/SiC



- NOTES: 1. ALL DIMENSIONS ARE IN mm TOLERANCE IS ± 0.25 mm
UNLESS OTHERWISE NOTED.
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.0mm
DOWN THE LEADS.
3. BURR AROUND BOTTOM OF EPOXY MAY BE 0.5 mm MAX.

COTCO-D-074 REV.0

For Pricing and Delivery Information Contact:

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Marktech Optoelectronics*

120 Broadway, Menands, NY 12204

Phone: 800.984.5337 FAX: 518.432.7454

Web Site: www.marktechopto.com

*Marktech is the exclusive North American Technical Sales and Marketing office for COTCO LED products

SPECIFICATION

Absolute Maximum Rating (T_a = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I _F	25	mA
Peak Forward Current pulse width ≤0.1msec duty ≤1/10	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	120	mW
Operation Temperature	T _{opr}	-20 ~ +75	°C
Storage Temperature	T _{stg}	-30 ~ +80	°C
Lead Soldering Temperature	T _{sol}	260°C for 3 sec (3mm from the base of the epoxy bulb)	

Initial Electrical/Optical Characteristics (T_a = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA	3.2	3.6	4.2	V
Reverse Current	I _R	V _R = 5V	---	---	100	μA
Wavelength	λ _D	I _F = 20mA	460	470	480	nm
Luminous Intensity	I _V	I _F = 20mA	280	550	---	mcd
50% Power Angle	2θ½	I _F = 20mA	---	15	---	deg

Luminous Intensity Combination

Rank	P	Q	R	S
Luminous Intensity (I _F =20mA)	280-390 mcd	390-550 mcd	550-770 mcd	770-1100 mcd

*One normal delivery will include all ranks listed above.

The quantity ratio of the ranks is decided by COTCO.

Measurement Uncertainty of the Luminous intensity : ±15%

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GRAPHS

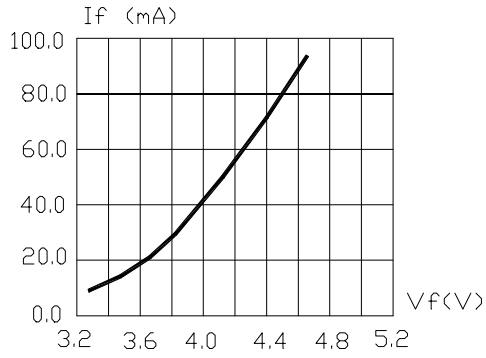


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

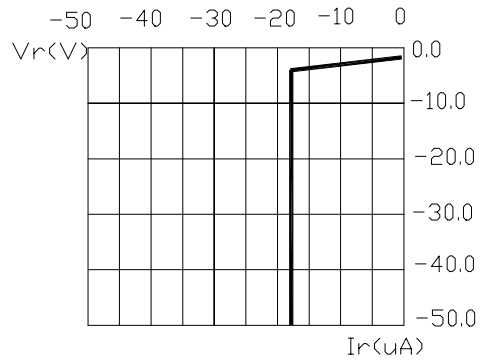


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

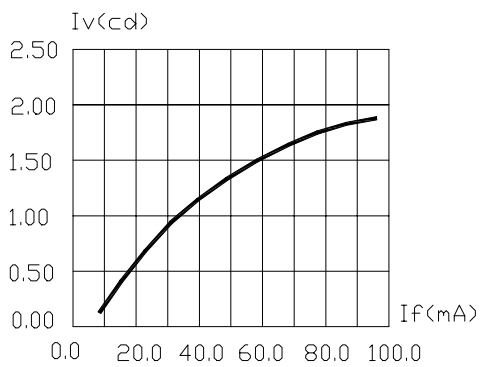


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

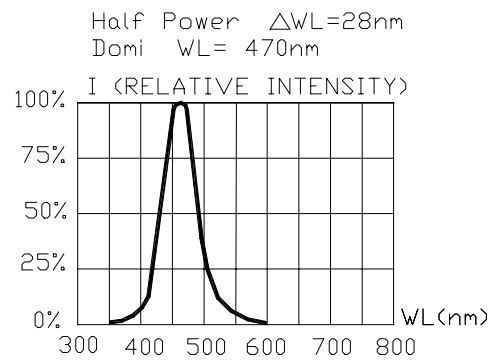


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

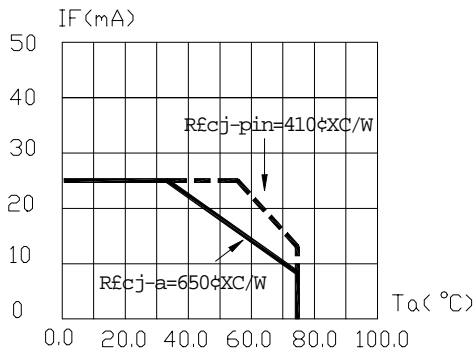


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax}=95^{\circ}C$

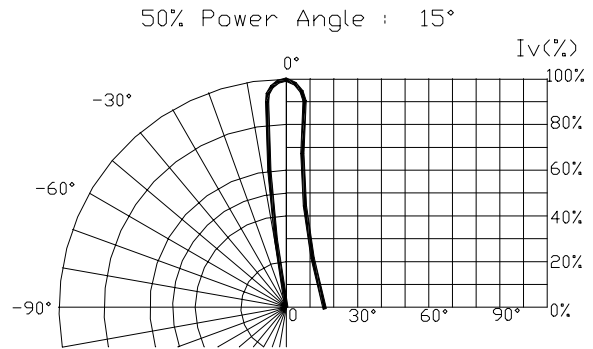


FIG.6 SPATIAL DISTRIBUTION.

1. Cathode PAD Area (0.18 × 0.18inch²)
2. Height above nominal seating plane in inches(0.3inch)

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