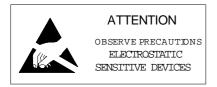


COTCO LUMINANT DEVICE (HUIZHOU) LTD

Part #: LO481MBL4-B0P

Product Description: Blue 110° oval LED lamp with tinted diffused lens and stand offs.



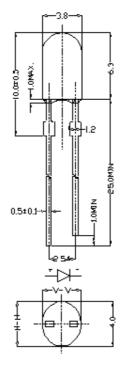
Resin: Epoxy

Lens Color: Tinted Diffused

Lead Frame: Ag Plating Iron Alloy

Dice: InGaN/SiC

DIMENSION DRAWING



NOTES: ALL DIMENSIONS ARE IN mm TOLEPANCE IS±025mm UNLESS OTHERVISE MOTED.

- 2. AN EPDXY MENISCUS MAY EXTEND ABOUT 1.0mm DOWN THE LEADS.
- 3. BURR AROUND BOTTON OF EPOXY MAY BE 0.5 mm MAX.

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Pricing and Delivery Information Contact:

Marktech Optoelectronics*

120 Broadway, Menands, NY 12204 Phone: 800.984.5337 FAX: 518.432.7454 Web Site: www.marktechopto.com

SPECIFICATION

Absolute Maximum Rating $(T_a = 25^{\circ}C)$

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_{F}	25	mA
Peak Forward Current pulse width ≤ 0.1 msec duty $\leq 1/10$	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_{D}	120	mW
Operation Temperature	T_{opr}	-20 ~ +75	$^{\circ}\!\mathbb{C}$
Storage Temperature	T_{stg}	-30 ~ +80	$^{\circ}\!\mathbb{C}$
Lead Soldering Temperature	$T_{\rm sol}$	260°C for 3 sec (3mm from the base of the epoxy bulb)	

Initial Electrical/Optical Characteristics $(T_a = 25^{\circ}C)$

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V_{F}	$I_F = 20 \text{mA}$	3.2	3.6	4.2	V
Reverse Current	I_R	$V_R = 5V$			100	μΑ
Wavelength	$\lambda_{ m D}$	$I_F = 20 \text{mA}$	460	470	480	nm
Luminous Intensity	Iv	$I_F = 20 \text{mA}$	37.2	70		mcd
50% Power Angle	2θ% H-H	$I_F = 20 \text{mA}$		110		deg
	2θ½ V-V	$I_F = 20 \text{mA}$		60		deg

Luminous Intensity Combination

Rank	Н	J	K	L
Luminous Intensity (If=20mA)	37.2-52 mcd	52-72.8 mcd	72.8-102 mcd	102-145 mcd

^{*}One normal delivery will include all ranks listed above.

Upper and lower tolerance limit of the Luminous flux $\pm 15\%$

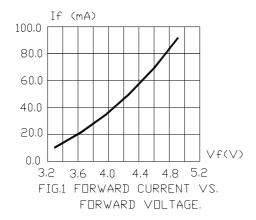
COTCO-D-074 REV.0

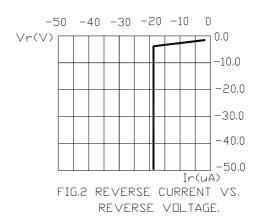
Pricing and Delivery Information Contact:

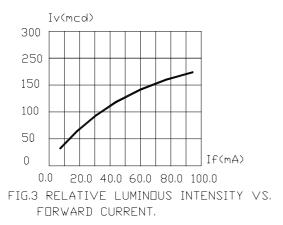
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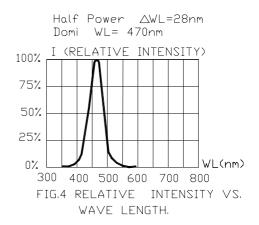
The quantity ratio of the ranks is decided by COTCO.

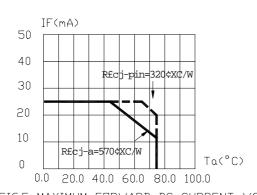
GRAPHS











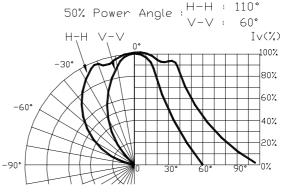


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON Tjmax=95°C FIG.6 SPATIAL DISTRIBUTION.

- 1.Cathode PAD Area $(0.18 \times 0.18 \text{inch}^2)$
- 2. Height above nominal seating plane in inches(0.3 inch)

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