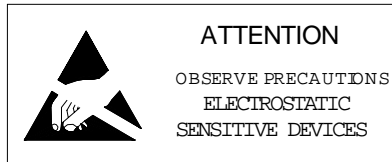




COTCO LUMINANT DEVICE (HUIZHOU) LTD

**Part #: LC461MPG4-95G**

Product Description: Green 95° 5mm LED lamp with tinted diffused lens and stand offs



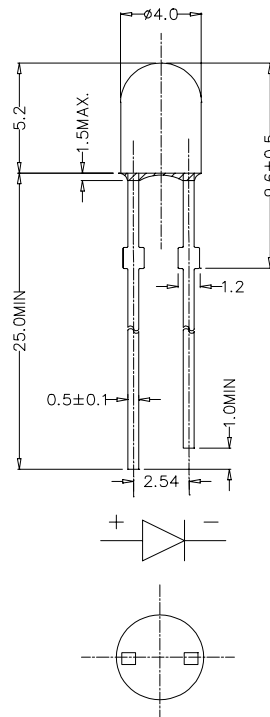
**Resin:** Epoxy

**Lens Color:** Tinted Diffused

**Lead Frame:** Ag Plating Copper Alloy

**Dice:** InGaN/SiC

**DIMENSION DRAWING**



- 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.

COTCO-D-074 REV.0

**Delivery Information Contact:**

1/3

**Marktech Optoelectronics\***  
 120 Broadway, Menands, NY 12204  
 Phone: 800.984.5337 FAX: 518.432.7454  
 Web Site: [www.marktechopto.com](http://www.marktechopto.com)

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

## SPECIFICATION

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

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	$I_F$	25	mA
Peak Forward Current pulse width $\leq 0.1\text{msec}$ 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	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-30 ~ +80	$^\circ\text{C}$
Lead Soldering Temperature	$T_{sol}$	260 $^\circ\text{C}$ for 3sec (3mm from the base of the epoxy bulb)	

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	3.2	3.6	4.2	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	---	---	100	$\mu\text{A}$
Wavelength	$\lambda_D$	$I_F = 20\text{mA}$	515	525	535	nm
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	102	280	---	mcd
50% Power Angle	$2\theta_{1/2}$	$I_F = 20\text{mA}$	---	95	---	deg

Luminous Intensity Combination

Rank	L	M	N	P
Luminous Intensity ( $I_f=20\text{mA}$ )	102-145 mcd	145-200 mcd	200-280 mcd	280-390 mcd

\*One normal delivery will include all ranks listed above.

The quantity ratio of the ranks is decided by COTCO.

Upper and Lower Tolerance limit for Luminous intensity :  $\pm 15\%$ 

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GRAPHS

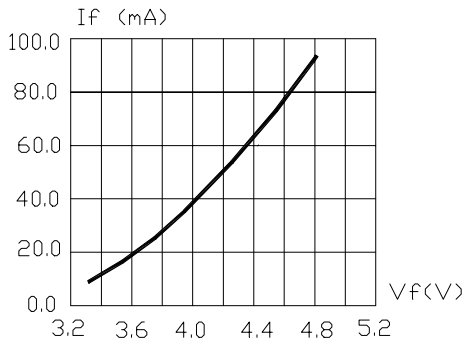


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

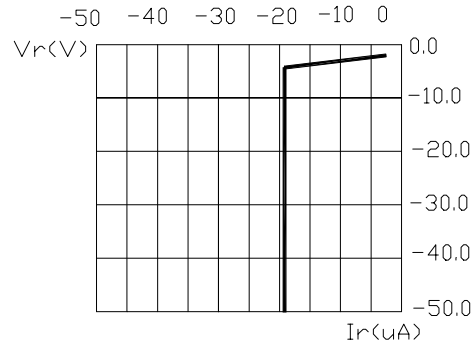


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

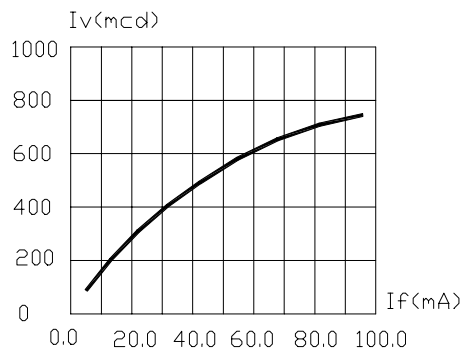


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

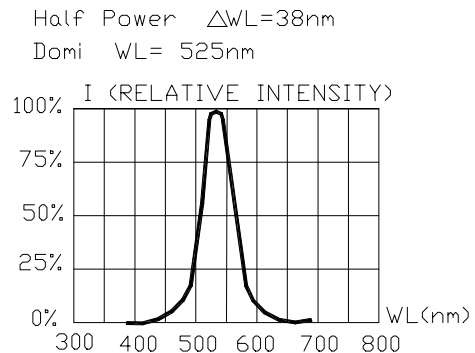


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

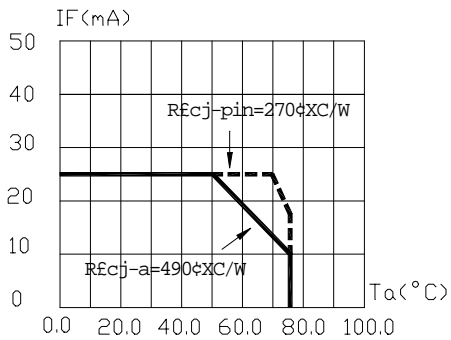


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE. DERATING BASED ON  $T_{jmax}=95^{\circ}C$

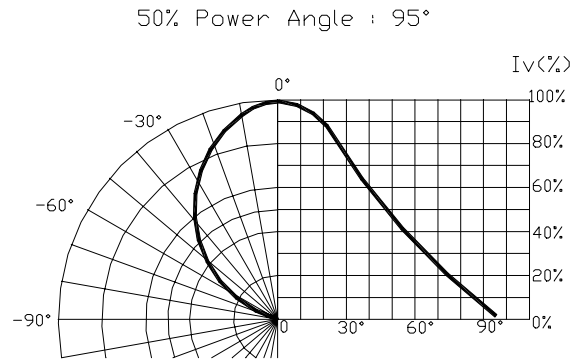


FIG.6 SPATIAL DISTRIBUTION.

- 1.Cathode PAD Area (0.18 × 0.18inch<sup>2</sup>)
- 2.Height above nominal seating plane in inches(0.3inch)

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