COTCO LUMINANT DEVICE (HUIZHOU) LTD.

SPECIFICATION FOR COTCO LED LAMP

| Document No: Model No : Rev. No: Date: | SPE/LO5SMTPG4-B0G-A2 LO5SMTPG4-B0G-A2 01 2005-02-24 |
|---|--|
| Date. | |
| Description: | |
| 110 Degree Oval Tinted Diffused L | LED Lamp in Pure Green Color with ens and Stopper |
| Dice Material: | InGaN |
| Confirmed by Customer: | |
| Date: | |
| | |







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Applications:

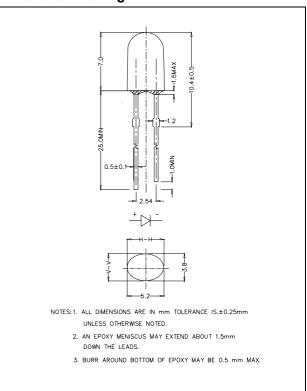
Full Color Display

Absolute Maximum Ratings at Ta = 25°C

| Items | Symbol | Absolute maximum | Unit |
|-----------------------|-----------------|--------------------------------------|-------|
| items | Syrribor | Rating | Offic |
| Forward Current | I _F | 25 | mA |
| Peak Forward Current* | I _{FP} | 100 | mA |
| Reverse Voltage | V_R | 5 | V |
| Power Dissipation | P_{D} | 100 | mW |
| Operation Temperature | T_{opr} | -40 ~ +95 | °C |
| Storage Temperature | T_{stg} | -40 ~ +100 | °C |
| Lead Soldering | | Max.260°C for 3 sec M | lax. |
| Temperature | T_{sol} | (3mm from the base of the epoxy bull | |



Dimension Drawing



Typical Electrical & Optical Characteristics (Ta = 25°C)

| Items | Symbol | Condition | Min. | Тур. | Max. | Unit |
|---------------------|----------------|------------------------|------|------|------|------|
| Forward Voltage | V _F | I _F = 20mA | | 3.4 | 4.0 | V |
| Forward Voltage | V _F | I _F = 1.0μA | 1.7 | | 2.5 | V |
| Reverse Current | I _R | V _R = 5V | | | 100 | μА |
| Dominant Wavelength | λ_{D} | I _F = 20mA | 520 | 527 | 535 | nm |
| Luminous Intensity | I _V | I _F = 20mA | 1100 | 1750 | | mcd |
| 50% Power Angle | 20½H-H | I _F = 20mA | | 110 | | deg |
| | 2მ-₂V-V | I _F = 20mA | | 50 | | deg |



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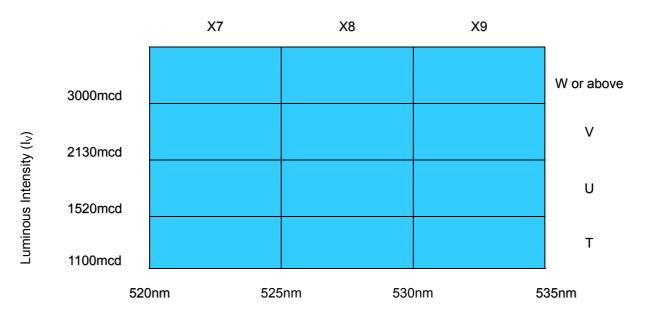
Standard bins for LO5SMTPG4-B0G-A2 ($I_F = 20mA$):

Lamps are sorted to Luminous Intensity $-I_V$ & Dominant Wavelength $-\lambda_D$ bins shown.

Orders for LO5SMTPG4-B0G-A2 may be filled with any or all bins contained as below.

All Luminous Intensity $-I_V$ & Dominant Wavelength $-\lambda_D$ values shown and specified are at I_F =20mA.





Dominant Wavelength (λ_D)

Important Notes:

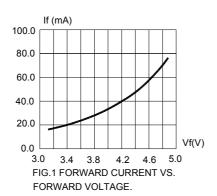
- 1) All ranks will be included per delivery; rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is ±15%.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.
- 6) Packaging methods are available for selection, Please refer to PACKAGING STANDARD.
- 7) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.
- 8) Please refer to APPLICATION NOTES for Application.

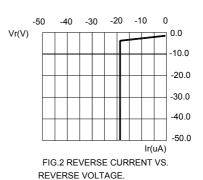
^{*} T+ indicates Luminous Intensity is at T bin or above.

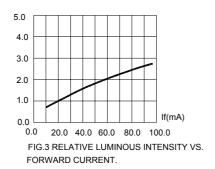


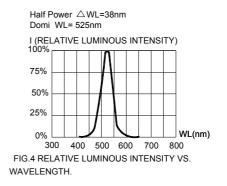
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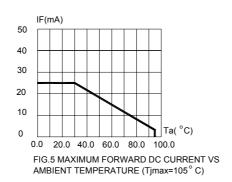
Graphs

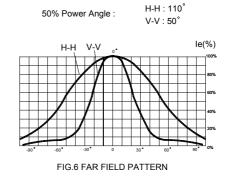












| Items | Signatures | Date |
|-------------|------------|------------|
| Prepared by | LiuZM | 2005-02-24 |
| Checked by | MaJF | 2005-02-24 |
| Approved by | David | 2005-02-24 |
| ECN# | ECN-H20 | 050055 |

| Revision History | | |
|------------------|---------------------------------|--|
| Rev. No | Rev. No Date Change Description | |
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