LUSTROUS®

GREEN TECHNOLOGY OF LIGHTINGS

Technical Datasheet LS06

(All patents pending)

High Power Solid-State LED Light Source

LUSTRON X

Introduction

For a brighter solid-state light source, **LUSTRON X** is an energy-efficient building block generating enough light outputs suitable for most applications in lighting field. **LUSTRON X** offers the best solid-state light source and you might realize your modern ideas of lightings.

LUSTRON X provide the best possible color rendering capability and color temperature. With a nominal correlated color temperature of 2800~3200K, similar to conventional indoor light source, **LUSTRON X** is particularly designed for architects and commercial lighting designers.

LUSTRON X Part Number Matrix

Table.1 (For 350mA, 31.5V)

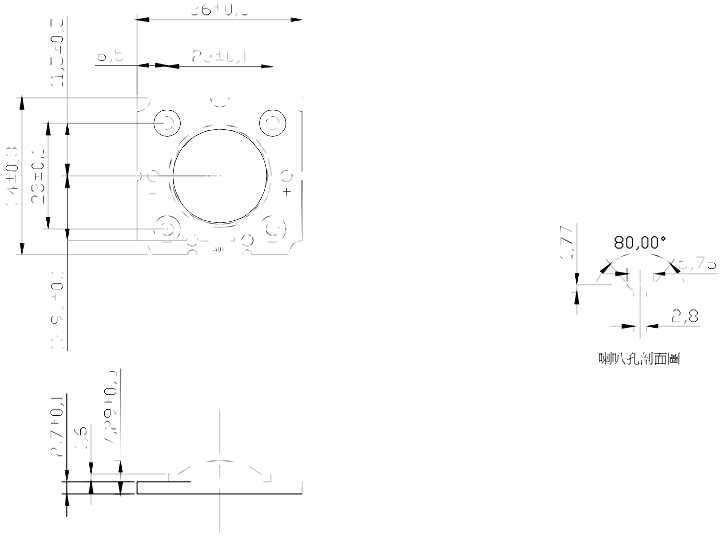
Color	P/N
Warm White (3200K)	LHS110CLC0B
White (6500K)	LHS110NWC0B
Neutral White(4100K)	LHS110MWC0B

Table.2 (For 1000mA, 10.5V)

Color	P/N
Warm White (3200K)	LAS110CLC0B
White (6500K)	LAS110NWC0B
Neutral White(4100K)	LAS110MWC0B

Mechanical Dimensions

LUSTRON X



Note:

1. Drawing not to scale. All dimensions are in millimeters.

Stress Testing Item

Stress Test	Stress Condition	Stress Duration	Failure Criteria	Result (failed/tested)
HTOL	Ta=85℃ Tj＜=125℃,If=500mA(or If = 1.5A*)	Time=1000hrs	Note1	0/20
LTOL	Ta=-30℃ Tj＜=125℃, If=500mA(or If = 1.5A*)	Time=1000hrs	Note1	0/20
RTOL	Ta=25℃ Tj＜=125℃, If=500mA(or If = 1.5A*)	Time=1000hrs	Note3	0/20
WHTOL	Ta=60℃ Tj＜=125℃,If=300mA(or If = 0.9A*) Humidity=90% RH	Time=500hrs	Note1	0/20
HTSL	Ta=125℃,No operation	Time=1000hrs	Note1	0/20
LTSL	Ta=-40℃,No operation	Time=1000hrs	Note1	0/20
TMCL	-25℃ to 125℃ 15 mins dwell time, 15mins transfer time	500 cycle	Note1	0/20
TMSK	-40℃ to 100℃ 15 minute dwell time, < 20 second transfer time	500 cycle	Note1	0/20
Mechanical Shock	1500 G, 0.5 ms pulse width 5 shocks each, 6 axis		Note2	0/20
Salt Atmosphere	Temp = 35°C Salt deposit 30 g/sq.m/da	Time=48 hrs	Note2	0/20
Solderability	Pb-Free reflow solder profile, or T=260℃,10secs, 3 times		Note3	0/20

Note1: A failure is an LED that is open, shorted, or loses more than 50% of its initial

light output.

Note2: A failure is an LED that is open or shorted.

Note3: A failure is an LED that is open, shorted, or loses more than 15% of its initial light output.

*: This value is for LAS110XXC0B.

Flux Characteristics at Junction Temperature Tj = 25°C

Table.3 (For 350mA, 31.5V)

Color	Minimum Luminous Flux (lm) or Radiometric Power (mW)	Typical Luminous Flux (lm) or Radiometric Power (mW)
White (6500K)	650 lm	750 lm
Warm White (3200K)	550 lm	600 lm
Neutral White (4100K)	550 lm	600 lm

Table.4 (For 1000mA, 10.5V)

Color	Minimum Luminous Flux (lm) or Radiometric Power (mW)	Typical Luminous Flux (lm) or Radiometric Power (mW)
White (6500K)	650 lm	750 lm
Warm White (3200K)	550 lm	600 lm
Neutral White (4100K)	550 lm	600 lm

1. Brightness is measured in total power with tolerable errors of 10%.Minimum luminous flux performance guaranteed within published operating conditions.
2. Higher luminous flux will become available in the near future.