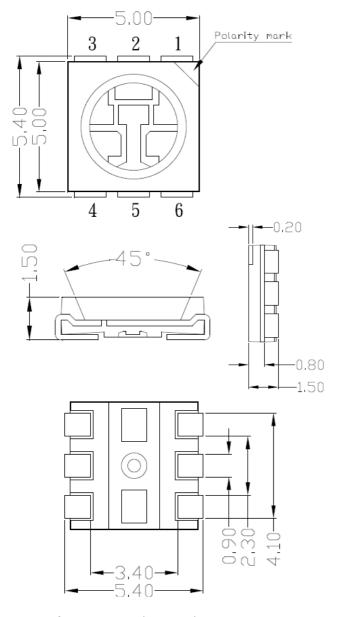
## A-BRIGHT A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

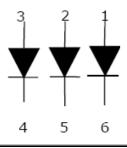
#### **Power Sunset White Surface Mount Device**

Part Number: 61-23SWC

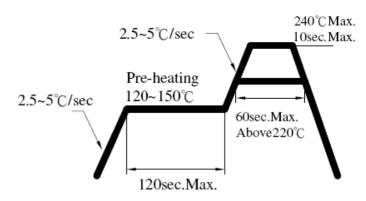
### Package outlines & Re-flow Profile



For reflow soldering (Propose)



#### ■Reflow Temp/Time



#### ■Soldering iron

Basic spec is  $\leq$  5sec when 260°C. If temperature is higher, time should be shorter (+10°C $\rightarrow$ -1sec). Power dissipation of iron should be smaller than 15W, and temperatures should be controllable. Surface temperature of the device should be under 230°C.

ITEM	MATERIALS		
Resin (mold)	Ероху		
Lens color	Yellow Diffused		
Printed circuit board	BT		
Emitted color	Sunset White		
Material	InGaN		

#### NOTES:

- 1. All dimensions are in millimeters (inches);
- 2. Tolerances are ±0.1mm (0.004inch) unless otherwise noted.
- 3. Polarity referring onto the cathode mark is reversed on the red.

## **A-BRIGHT** A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 61-23SWC

# **ELECTRO-OPTICAL CHARACTERISTICS**

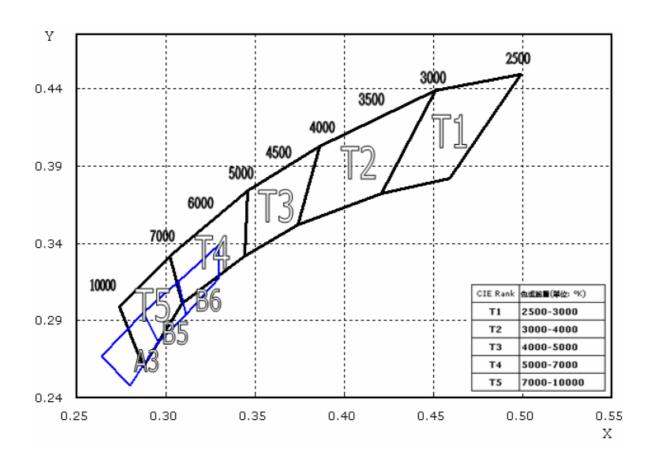
Parameter	Test	Symbol	Value			Unit	
T arameter	Condition	Gyillboi	MIN. T	ГҮР.	MAX.		
Viewing angle at 50% l <sub>√</sub>	I <sub>F</sub> =10mA	2 <i>0</i> 1/2		120		Deg	
Forward voltage	I <sub>F</sub> =20mA	V <sub>F</sub>	2.8		3.8	V	
Luminous intensity	I <sub>F</sub> =60mA	I <sub>V</sub>	2900 3	3250		mcd	
Peak pulsing current (1/10 duty f=1kHz)		I <sub>FP</sub>		100		mA	

Absolute maximum ratings			(T <sub>A</sub> =25°C)
Parameter	Symbol	Value	Unit
Forward current	lf	60	mA
Reverse voltage	V <sub>R</sub>	5	V
Reverse current	I <sub>R</sub>	10	μА
Power Consumptoin	Pc	230	mW
Operating temperature range	Тор	-40 ~+85	$^{\circ}\!\mathbb{C}$
Storage temperature range	Tstg	-40 ~+100	$^{\circ}\!\mathbb{C}$

## A-BRIGHT A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 61-23SWC

### **CIE Chromaticity Diagram & Color Ranks**



T1		Т	2	2 T		T3 T4		Т	5
Х	У	Х	У	Х	У	Х	У	Х	У
0.499	0.449	0.451	0.439	0.386	0.403	0.346	0.374	0.302	0.332
0.459	0.382	0.421	0.372	0.374	0.352	0.344	0.332	0.309	0.301
0.421	0.372	0.374	0.352	0.344	0.332	0.309	0.301	0.287	0.260
0.451	0.439	0.386	0.403	0.346	0.374	0.302	0.332	0.274	0.299

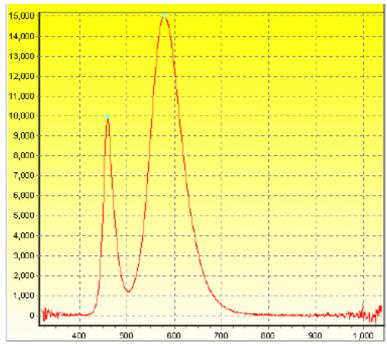
Α	3	В	5	В	6
Х	У	Х	У	Х	У
0.287	0.295	0.307	0.315	0.330	0.339
0.296	0.276	0.311	0.294	0.330	0.318
0.280	0.248	0.296	0.276	0.311	0.294
0.264	0.267	0.287	0.295	0.307	0.315

<sup>\*</sup> Color coordinates measurement allowance is ±0.01

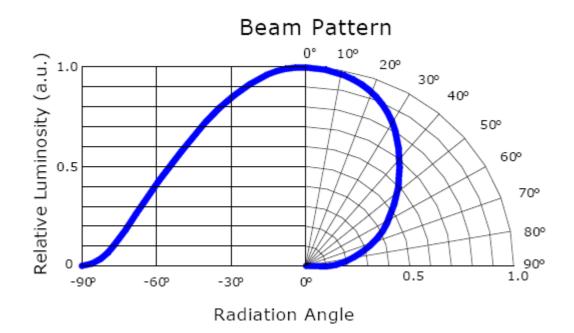
## A-BRIGHT A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 61-23SWC

## **Typical Electro-Optical Characteristic Curves**



\* CCT 3000°K

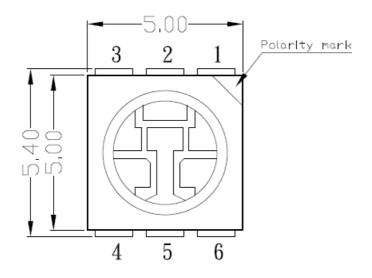


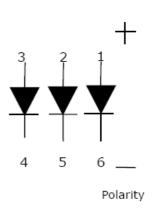
## -BRIGHT A-BRIGHT INDUSTRIAL CO., LTD.

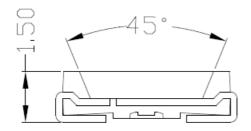
### SURFACE MOUNT LED LAMPS

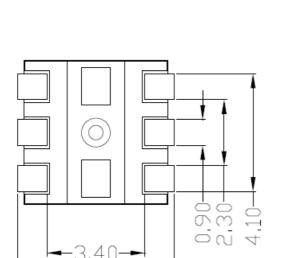
Part Number: 61-23SWC

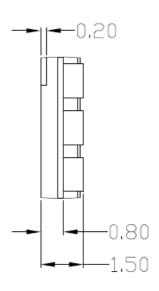
### **Taping Dimension (Unit=mm)**











- 1. All dimensions are in millimeters.
- 2. Tolerances are ±0.1 mm, unless otherwise noted.

## A-BRIGHT A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 61-23SWC

#### **Precautions For Use**

#### 1. Over-current proof

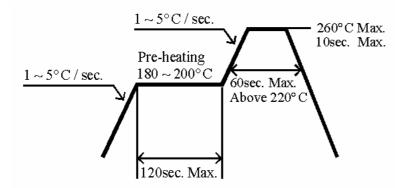
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

#### 2. Storage

- 2.1 Do not open moisture proof bag before the products are ready to use.
- 2.2 Before opening the package, the LEDs should be kept at 30°C or less and 90%RH or less.
- 2.3 The LEDs should be used within a year.
- 2.4 After opening the package, the LEDs should be kept at 30°C or less and 70%RH or less.
- 2.5 The LEDs should be used within 168 hours (7 days) after opening the package.
- 2.6 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment: 60±5°C for 24 hours.

#### 3. Soldering Condition

3.1 Pb-free solder temperature profile



- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.

#### 4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 280°C for 3 seconds within once in less than soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.