

# Approval Sheet

Customer: \_\_\_\_\_

Item: TOP VIEW LEDS

Part No.: LKUW5050A-712-I15

Customer P/N: \_\_\_\_\_



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PREPARED BY	CHECKED BY	APPROVED BY

SIGNATURE	CHECKED BY	APPROVED BY

供方签章:  
SUOOLIER:

日期:  
DATE:

客户签章:  
CUSTOMER:

日期:  
DATE:

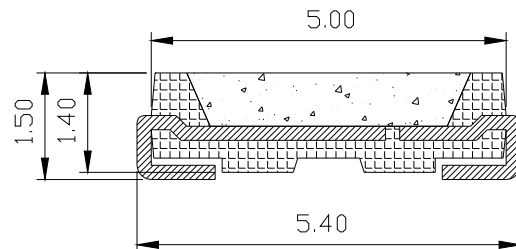
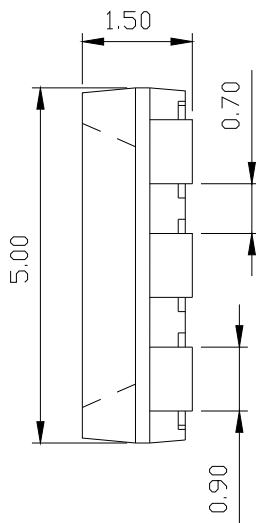
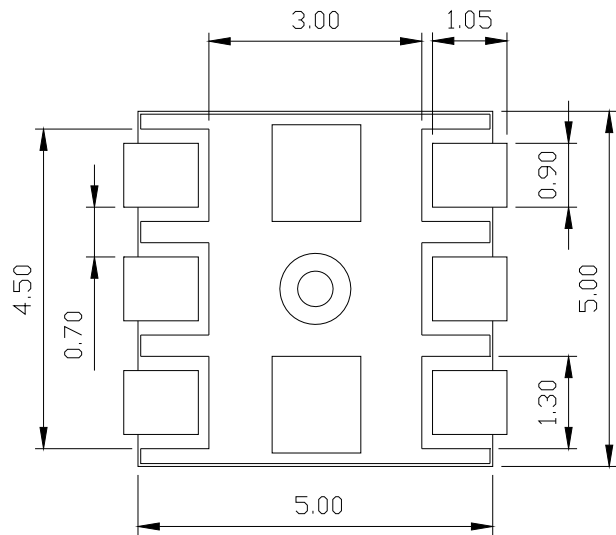
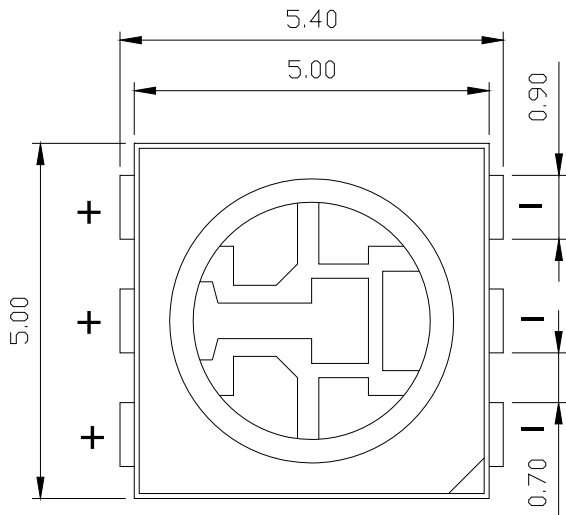
备注: 承认签章后请回复一份(或复印件)给我公司, 其余由贵司留作存盘。如果在签章的承诺书(或复印件)回复我司之前, 下了有关此零件的订单且又无特殊说明, 那么我司就确定贵司已完全承认。

Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will

be assumed that full approval have been given.

**TYPE NO: LKUW5050A-712-I15**

## PACKAGE DIMENSIONS



Note:

1. All Dimensions are in millimeters
2. Tolerance is  $\pm 0.1$ mm Unless otherwise specified.

## Device Selection Guide

Emitting Color	Lens Type
White	---

## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Max	Unit
Power Dissipation	$P_d$	0.2	W
Peak Forward Current 1/10 Duty Cycle, 0.1ms Pulse Width	$I_{FP}$	150	mA
Forward Current	$I_F$	90	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature Range	$T_{opr}$	-40°C to +100°C	
Storage Temperature Range	$T_{stg}$	-40°C to +110°C	
Lead Soldering Temperature 【3mm From Body】	$T_{sol}$	260°C For 5 Seconds	

## Electrical Optical Characteristics at Ta=25°C

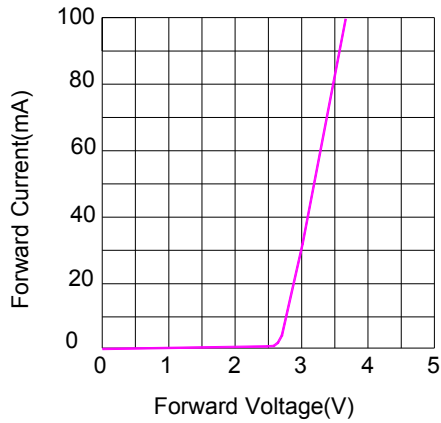
Parameter	Symbol	Min	Typ	Max	Unit	Condition
Forward Voltage	$V_F$	2.8	3.2	3.6	V	IF=60mA
Luminous Intensity	$I_v$	4000	5000	7000	mcd	IF=60mA
Dominant Wavelength	$\lambda_d$	---	---	---	nm	IF=60mA
Temperature Color	CCT	6000	---	7000	K	IF=60mA
Reverse Current	$I_R$	/	/	5	μA	VR=5V
Viewing Angle	2θ1/2	/	120	/	deg	IF=60mA

### Note.

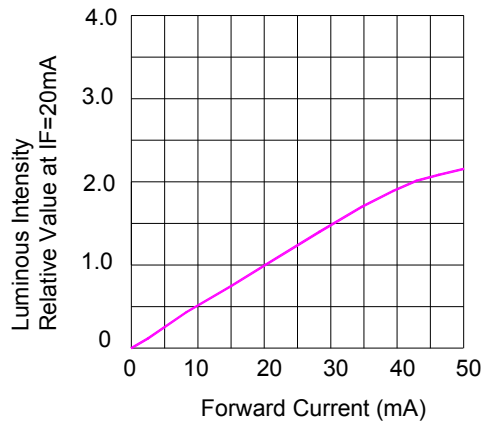
1. Tolerance of Luminous Intensity: 11%
2. Tolerance of Dominant Wavelength: ±1nm
3. Tolerance of Forward Voltage: ±0.1V

# Typical Electro-Optical Characteristics Curves

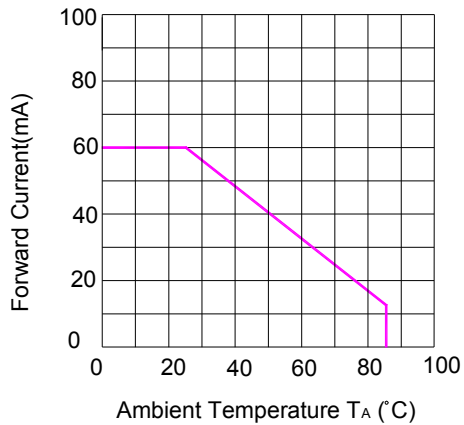
**Relative Luminous Intensity vs Forward Current,  $T_{Ambient}=25^{\circ}C$**



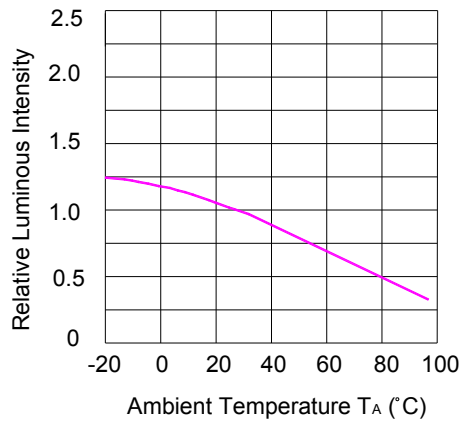
**Relative Luminous Intensity vs Forward Current,  $T_{Ambient}=25^{\circ}C$**



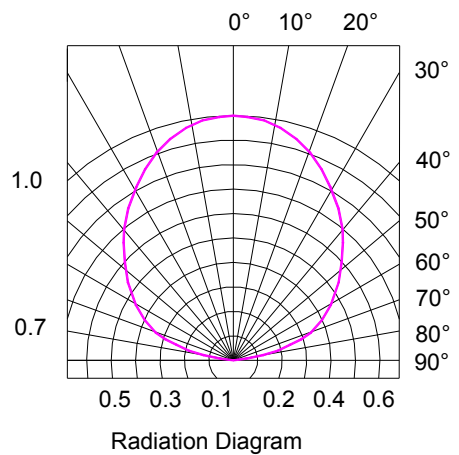
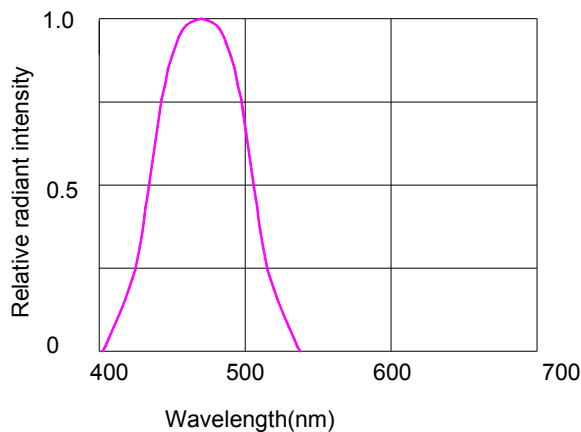
**Forward Current Derating Curve, Derating based on  $T_{jMAX}=85^{\circ}C$**



**Luminous Intensity VS Ambient Temperature**



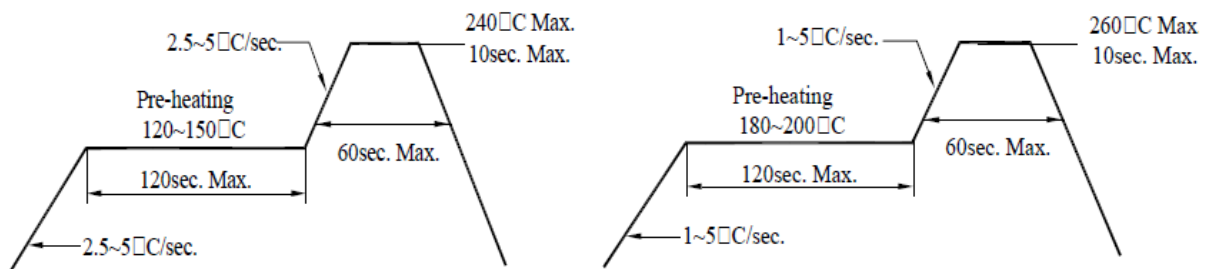
**Relative Spectral Distribution,  $I_F=60mA$ ,  $T_{Ambient}=25^{\circ}C$**



## Soldering condition

Reflow Soldering			Hand Soldering	
	Lead Solder	Lead – free Solder		
Pre-heat	120~150°C	180~200°C	Temperature	350°C Max.
Pre-heat time	120sec. Max.	120sec. Max.	Soldering time	3sec. Max. (one time only)
Peak temperature	240°C Max.	260°C Max.		
Soldering time	10sec. Max.	10sec. Max.		
Condition	refer to Temperature- Profile 1	refer to Temperature- Profile 2		

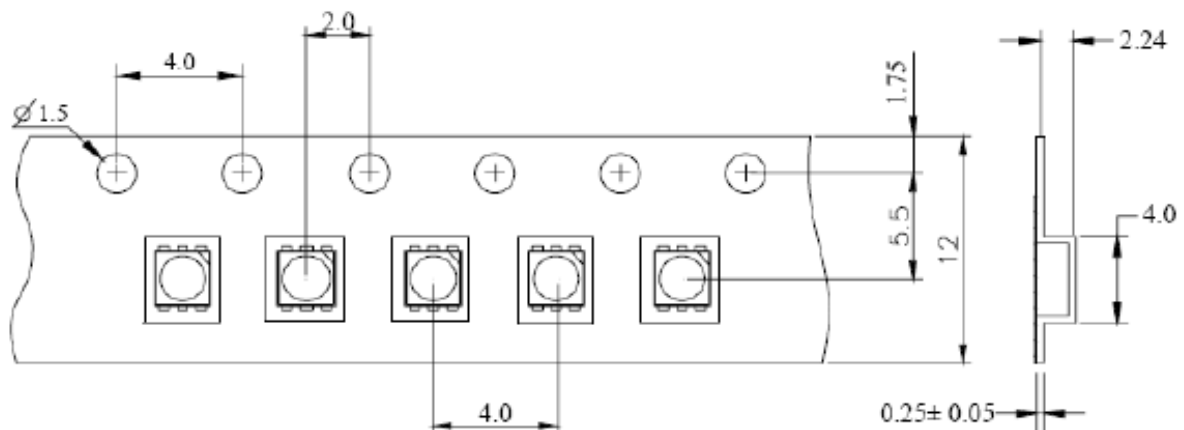
## Temperature profile in re-flow machine for lead type and lead free type



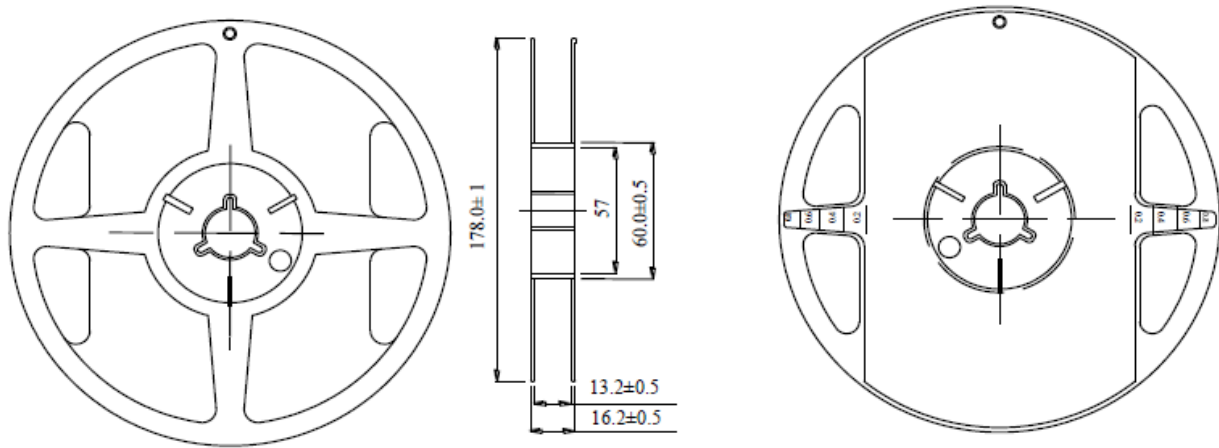
## Storage condition

In order to avoid the absorption of moisture, it is recommended to store in the dry box (or desiccators) with a desiccant. Otherwise, to store them in the following environment is recommended. Temperature: 5°C~30°C Humidity: 60%HR max.

## Dimension of carrier tape



## Dimension of reel



### Notes:

1. All dimensions are in mm, tolerance is  $\pm 2.0$ mm unless otherwise noted.
2. Specifications are subject to change without notice.

### Packing

1. Number of SMD 5050 product in reel and bag(anti-static bag)
  - 1.1. 1000 piece of SMD 5050 Products on one reel. The reel will be put in the anti-static bag then sealed.
  - 1.2. 1000 piece of SMD 5050 products on one bag.